THE LANCET.

LONDON: SATURDAY, SEPTEMBER 14, 1878.

ADDRESS TO STUDENTS.

IT has been well and truly said, Belief in the efficacy of preaching is the bane of educational systems; as, indeed, it is the bane of criticism, art, religious instruction, and so many other of the forms in which we seek to influence one another. Convinced of the truth of this proposition, and acting upon the hint therein contained, we shall spare the medical novice a homily on the blessedness of industry, patience, sagacity, and virtue. With all this we shall assume him to be familiar. We prefer to take him into our confidence, and to ask him to join us in considering one or two of the circumstances that are likely to affect the nature and method of his future studies, and which may influence, for good or for evil, his ultimate career through life. To do this briefly and intelligibly, we shall take for granted that the student has already deliberately made his choice of the profession, and is prepared to accept the medical status as by authority, law, and custom established.

The cry for higher education is heard on every side and in every country. Not in England or Europe alone, but in America, in Asia, and even in Africa, the demand for education is paramount. For the removal of social and political evils, for the eradication of moral depravity, for the growth of virtue, and for the adjustment of intellectual differences, the vaunted remedy is one and the same—Education, education! As the alchemists of old, in the "search for perfection," strove to discover the secret of converting baser metals into gold, so reformers of the present day imagine that the magic touch of the educational stone will purify the grosser minds of this ambitious age and transform them into bright and quick intelligences. Whether these dreams will ever be realised is not now the question. It is sufficient for us to recognise that the spirit of the age is essentially an educational and examinational one. Of this we may be sure: what is good and practicable will prevail, and what is chimerical will vanish like the fantastic dreams of such visionaries as the Lullists or the Brothers of the Rosy Cross. Unfortunately, too many of the converts to the gospel of education are persons who understand least of its aim, scope, and character. With them education means merely the acquisition of a larger or smaller number of facts relating to branches of science, art, and literature; and if this be accomplished, the purposes of education have been fulfilled. The more facts they can cram into the memory, the greater is their faith in the efficacy of the system. With them the educated man is he who can talk glibly about the acquired products of science, philosophy, art, and of the other departments of human knowledge, and they welcome the adoption of any means that facilitates the acquisition of this kind of learning. The eagerness with which all classes of society rush to popular lectures on science and literature, especially if spiced with a flavour of religious scepticism, and the avidity with which they devour the contents of the legion of science-primers, is a striking illustration of the prevalence of these views. Even the learned professions have not escaped the infection.

The portals of the medical profession are jealously guarded by endless restrictions, and by a varied series of examinations. Before registration as a medical student the candidate must adduce evidence of a degree of general education and of some scholastic attainments, and each succeeding grade is reached through the examination-room. It is important therefore that a proper estimate should be formed of the part examinations play in medical education. Assuming, as we may, that those who are about to commence their professional studies have acquired some amount of liberal education, let us briefly note the salient differences between his past and his future methods of study. So far he has been guided and influenced solely by the authority of others. A definite course of study has been prescribed and insisted on. Nothing hitherto has been left to chance or choice; but now the student will, within certain limits, have considerable latitude in the selection of his masters and subjects, and in determining the degree of attention and industry that he will give to them. Compared with the hourly and daily inspections, questionings, and supervisions of school life, the medical student is practically untrammeled, and the day of reckoning is so remote that he may be tempted to believe that its consideration can be indefinitely postponed. Another and greater difference is that, as regards any particular calling, the preliminary education has been purposeless. Beyond an attempt to inform the mind and strengthen the memory, little or nothing has been done to make the student independent. On the other hand, the specific purpose for which he is sent to a medical school is to learn an art in which he will hereafter have to work, and by which he may have to gain a living. All his best energies must therefore be devoted to this end. In this lies the difference between liberal and technical education, which has been well defined by Mr. HENRY LATHAM in the following terms:—"An education is liberal so far as it concerns itself with the good and the cultivation of the pupil, valuing any accomplishment it may give him for the new perceptions it opens out, for the new powers it confers, or for any good it may do the man, and not regarding the work produced. Liberal education would like to make a man an artist, that he may have a delightful occupation, and acquire an eye for beauty and for truth; she would like him to paint well, because this would show the possession of such an eye, and many other qualities as well, but she would not care much about the pictures themselves; she would not care a bit whether his pictures were valuable or not. An education, so far as it is technical, is careful, not for the workman, but for the work. Technical education wants to get good pictures, and she only values any qualities of an artist so far as they conduce to this end. She aims at moulding the man into a perfect instrument for a particular purpose." In this sense medical education is mostly *technical*, and concerns itself chiefly with the duty of making a sound, safe, and educated practitioner. Collaterally, of course, it can be utilised for improving the man, by enlarging his

faculties and increasing his general powers. It is of moment, therefore, that the student should at once realise that he has to learn "to do" something. His task will henceforward be to acquire skill and knowledge to enable him to cure sickness and relieve pain, promote health, and prevent disease. The industrial training of the medical student should be the serious occupation of his life, and culture reserved for pastime. The character of the curriculum indicates this. The primary use of the subjects comprehended therein is practical. Speculative knowledge should be reserved for later years. This precaution is the more necessary because the student will not himself be the judge of his qualification for the task he proposes to undertake. After the completion of his prescribed studies he will be called upon to satisfy the constituted authorities that he has complied with established regulations and adequately fitted himself for the exercise of his profession.

Examinations and some form of State supervision have from the earliest times been deemed necessary to protect the sick from the pretensions of quacks and from the recklessness or ignorance of practitioners. The ancient Egyptians, who claimed to have invented medicine, required that physicians should treat their patients according to the rules laid down in medical treatises preserved in the principal temple of each city. And as early as the eleventh century before the Christian era there was a College of Physicians in Egypt. At Rome, too, in the time of the ANTONINES, there was a high grade of medical men called "chief physicians" (*archiatri*), who had the surveillance of all other doctors. A class of physicians, called *archiatri populares*, were provided for the chief cities throughout the Roman Empire according to their size, and constituted a College of Physicians, which seems to have held some form of examination to qualify persons to practise. But insistance on a prescribed course of study and systematic examinations, with the subsequent granting of diplomas, was probably first established in the famous School of Medicine at Salerno during the twelfth century. In 1140, King ROGER, in order to protect his subjects from the imposture of quacks, ordained that all who wished to practise the healing art in his kingdom should present themselves before the authorities of the Salerno School to obtain a permit, without which they incurred the penalty of imprisonment and the confiscation of all their goods. FREDERIC II., the grandson of ROGER, enforced and extended this provision. For instance, no student in medicine could practise in the kingdom of Naples until he had been examined by the Medical College of Salerno. If his attainments were judged satisfactory, he had the title of "master" (*magister*) conferred upon him, and this title the royal authorities confirmed when he exhibited his diploma. Before being admitted to examination, the candidate had to prove that he was a legitimate child, was twenty-one years of age, and had devoted seven years to the study of the art. He was also publicly examined in the writings of GALEN, AVICENNA, and HIPPOCRATES, and sometimes in those of ARISTOTLE. A still later law decreed that, preparatory to the study of medicine, three years at least should be given to the study of logic, and after that five years were to be devoted to medicine and surgery. Then, and not till then, was a candidate eligible for examination. But even after his examination he was obliged to practise for one year under the supervision of an old and experienced master.

In the twelfth century the theologians of the School at Paris began to grant academical dignities—a custom which the Nestorians and Jews had made known to the Arabs, and which the School of Salerno had first introduced into the Christian countries of the West. Medicine was publicly taught in the lay schools of Paris as early as the twelfth century, but it was not until the thirteenth century that the school of Paris received the title of University, and granted medical degrees. The duration and order of the course of study in the University of Paris was fixed by HONORIUS III. after the model of the Salerno School. Candidates had to study for six years, and to be twenty-one years of age, before they were eligible for examination. At the end of three years, however, they could become teachers, but only for the preparatory sciences, and could then obtain the title of Bachelor; and, after three years' further study, they were raised to the dignity of Master, with the right to teach publicly and to practise. Similar privileges were conceded in 1220 by Cardinal CONRAD to the School of Medicine at Montpellier. At first the members of this school were obliged to be clerks—that is, ecclesiastics, and tonsured; and, in order to obtain the rank and title of "Master Physician," had to undergo an examination before the Masters selected from the College by the Bishop MAGUELONNE. A like, though less severe, test was imposed for the degree of Surgeon, but in that case the candidate need not be an ecclesiastic. The system thus instituted has been modified and enlarged as circumstances required, and is continued to the present day.

Medical examinations have always had a double character, being both educational and selective. On the one hand, they prescribe the course and method of study, the subjects to be pursued, and the books to be read; on the other, they supply means of ascertaining whether the student has fulfilled these labours, and gained a sufficient amount of knowledge to qualify him for the practice of his profession. They give an incentive to work and a directness to study, promote industry and encourage application, check idleness and prevent discursiveness, provoke emulation and foster courage, give confidence, and, when judiciously applied, strengthen the memory and stimulate the higher faculties of the mind. At the same time, unless carefully and intelligently exercised, the examinational test, instead of promoting education, may retard or pervert it. If the ordeal be made too severe, there is always a danger that the efforts of the candidate will be directed to the acquisition of that kind of knowledge which has been found to tell best at an examination rather than that which is calculated to be most serviceable in actual practice. One evil influence of examinations is, therefore, the false notion of knowledge they are apt to engender. As commonly employed, they make the greatest demand on memory, and prevent spontaneity and originality. Whatever may be the bent or inclination of a man's mind, he is obliged to follow a beaten track. Up to a certain point this may not do any serious permanent damage, but beyond it the injury may be great and irreparable. As long as examinations are not made too difficult and do not embrace too wide an area they can do little harm, and may do much good for the education of the candidate. Very

difficult examinations are, as a rule, bad in principle and often vicious in practice. For purposes of selection there is perhaps no other practicable means. But even for such a purpose there is no guarantee that the best man, in the truest sense of the word, will acquit himself most worthily. Mr. FROUDE has given an amusing instance of the absurd lengths to which some examiners may be carried in their opinion of the nature and function of examinations. When the competitive examination system was first set on foot a board of examiners met to draw up their papers of questions. The scale of requirements had to be settled first. Among them, a highly distinguished man, who was to examine on history, announced that, for himself, he meant to set a paper for which MACAULAY might possibly get full marks; and he asked the other examiners to imitate him in the other subjects. Mr. FROUDE saw the paper this examiner set, and says he could have answered two questions out of a dozen! Yet it was gravely expected that young men of twenty-one, who were to be examined in Greek, Latin, moral philosophy, ancient history, mathematics, and two modern languages, should show a proficiency in each and all of these subjects which a man of mature age and extraordinary talents like MACAULAY, who had devoted his whole time to that special study, had attained only in one of them.

Under such a system of examination, education has come to consist of learning the results of science, rather than the processes by which those results have been obtained. In this way a recollection of the words and dates of history is taken to represent a knowledge of the philosophy of events. The committal to memory of a vast number of anatomical facts is supposed to constitute an acquaintance with the science of anatomy. The prevalence of these views has had a damaging influence on medical education. The examining boards have increased the stringency of their tests, until professorial teaching is scarcely possible, and most of the schools now vie with each other in offering attractions to the student in the way of special facilities for preparing him for his examinations. Teachers have sunk to the level of "crammers," and lecture-rooms have been converted into places where students are coached for examinations. Education has become subordinated to examination, and both teacher and student find their progress expedited by adapting themselves to the exigencies of the times. The effect is most prejudicial to the student, because he soon discovers that the simple process of committing to memory what he reads suits his purpose at an examination better than the tedious procedure of original thought and investigation. Book-reading takes the place of observation and experiment, and the result too often is a learned but incompetent practitioner.

While, therefore, the student ought not to despise examinations, he should not regard them as the *Ultima Thule*. They are only means to an end. That end is a noble one—no less than the right and privilege to exercise the beneficent art of healing. Those who diligently pursue this art will be abundantly rewarded for their pains. Dr. JOHNSON, who had a very high idea of the varied learning and science necessarily connected with the character of an accomplished physician, often affirmed that the physicians of this island, "did more good to mankind, without a prospect of reward, than any other profession of men whatever"; and POPE has said, "They are in general the most amiable companions, and the best friends, as well as the most learned men I know." It is the duty of each and all of us to preserve and transmit unsullied this lofty character, and, in the words of old GUY of Chauliac, to be "kind to patients, gracious towards colleagues, modest in giving an opinion, chaste, sober, pitiful and merciful, and not greedy of gain."

CHANGES AT THE MEDICAL SCHOOLS.

THE changes at the various schools in the United Kingdom have been few and unimportant during the past year. The following are the chief.

At *Charing-cross* Mr. E. Canton has been appointed consulting surgeon to the hospital, and has retired from the lectureship on Surgery, to which Mr. Barwell has succeeded. Beyond a readjustment of some of the minor courses of instruction, the only changes that have taken place are that Mr. Hird has become senior surgeon, and Mr. Bellamy full surgeon, Mr. Cantlie and Mr. E. Amphlett having been appointed assistant-surgeons to supply the vacancy caused by Mr. Bellamy's promotion and by the migration of Mr. Godlee to University College. Dr. Houghton has been appointed assistant-physician to the hospital. Mr. Robert Smith has been appointed medical registrar, and Mr. D. Colquhoun surgical registrar.

At *Guy's* the only changes are that Dr. Stevenson has succeeded Dr. Alfred S. Taylor as lecturer on Medical Jurisprudence, and Mr. G. A. Wright has been made surgical registrar.

At *King's College* Messrs. Royes Bell, William Rose, and Gerald Yeo, have been appointed demonstrators of Surgery. The chair of Hygiene is vacant in consequence of the resignation of Dr. Guy. At the hospital Messrs. E. H. Howlett and W. W. Cheyne have been appointed Sambrooke registrars. Mr. N. I. C. Tirard has succeeded Mr. F. Richardson Cross as sub-dean and tutor of the Medical department.

At the *London Hospital*, the only changes have been the promotion of Dr. Turner to the rank of physician, with care of out-patients, and the appointment of Dr. Barlow and Dr. Gilbart Smith as assistant-physicians.

At the *Middlesex*, Mr. George Lawson has been appointed lecturer on the Principles and Practice of Surgery with Mr. Hulke, and Mr. Andrew Clarke has succeeded Mr. Lawson as teacher of Practical Surgery. Mr. Henry Case has succeeded Dr. Henry Rayner as lecturer on Psychological Medicine, and Dr. Robert Liveing has been appointed lecturer on Dermatology. Mr. W. R. Williams has succeeded Mr. C. E. Thompson as sub-demonstrator of Anatomy.

At *St. Bartholomew's*, Dr. Gee has succeeded Dr. Black as co-lecturer on Medicine with Dr. Andrew, and Dr. Matthews Duncan has succeeded Dr. Greenhalgh as lecturer on Midwifery and Diseases of Women. Mr. Roeckel has been appointed assistant demonstrator of Anatomy, and Dr. V. D. Harris and Mr. Cantin respectively demonstrator and assistant demonstrator of Practical Physiology. The only change at the hospital is Dr. Matthews Duncan's appointment as physician-accoucheur, in place of Dr. Greenhalgh, retired.

At *St. George's*, Dr. Dickinson has been appointed additional lecturer (with Dr. Barclay) on the Principles and Practice of Medicine, Dr. Whipham succeeding Dr. Dickinson as lecturer on Pathology, and Dr. Watney succeeding him as lecturer on Materia Medica. At the hospital, Mr. Lee has been appointed consulting surgeon, Mr. Pick pro-

moted to a full surgeoncy, Mr. Stirling elected assistant-surgeon, and Mr. Augustus Winterbottom dental surgeon.

At *St. Mary's*, Mr. Spencer Smith has been made consulting surgeon, and Mr. Norton promoted to a full surgeoncy, Mr. Pye being elected to the vacant assistant-surgeoncy. The vacancy among the assistant-physicians caused by the death of Dr. Lawson has been filled by the appointment of Dr. Farquharson, Mr. Pye succeeding to the lectureship on Physiology formerly held by Dr. Lawson. Mr. Pepper has been made pathologist and medical tutor, Mr. Crombie lecturer on Botany, and Mr. W. Pearce assistant demonstrator of Anatomy.

At *St. Thomas's*, Mr. Nettleship has succeeded Mr. Liebreich as lecturer on Ophthalmology, and is ophthalmic surgeon to the hospital, Mr. Liebreich having been appointed consulting ophthalmic surgeon. Dr. Henry Rayner has succeeded Dr. Rhys Williams as lecturer on Mental Diseases.

At *University College* Dr. Sydney Ringer has succeeded Dr. Russell Reynolds as professor of the Principles and Practice of Medicine; and Dr. Frederick Roberts has been appointed to the chair of Materia Medica and Therapeutics. Messrs. Money, K. R. Smith, H. Maudsley, and R. H. Frith have been made assistant demonstrators of Anatomy. At the hospital, Dr. Russell Reynolds has been appointed consulting physician, Dr. H. C. Bastian thereby being promoted to a full physiciancy with the care of in-patients. Mr. J. Rickman Godlee has been made assistant-surgeon, and Mr. S. H. Burton surgical registrar.

At *Westminster* Dr. Allchin has succeeded Dr. Maclure as lecturer on Physiology, Mr. Murrell following the former gentleman as lecturer on Practical Physiology and Histology. Mr. R. Miller has been elected demonstrator of Anatomy. The death of Dr. Basham has robbed the hospital of one of its consulting physicians. Dr. Hughes Bennett has been appointed assistant-physician, and Mr. A. Pearce Gould assistant-surgeon, in the place of Mr. Keene, who has been elected aural surgeon.

At *Queen's College*, Birmingham, Dr. Edwin Rickards has succeeded Dr. James Sawyer as lecturer on Pathology, the latter gentleman having been appointed lecturer on Materia Medica and Therapeutics. Mr. Eales has been appointed one of the demonstrators of Practical Anatomy.—At the *General Hospital* Dr. Bell Fletcher has been made consulting physician, Dr. R. Saundby and Dr. George A. Gibson assistant-physicians, and Mr. W. G. Archer and Mr. T. F. Chavasse assistant-surgeons. Dr. H. Malet has succeeded Dr. Bindley as resident medical officer, and Mr. H. G. Lowe Dr. R. Saundby as resident registrar and pathologist.—At the *Queen's Hospital* the only change is the appointment of Mr. S. Berry as consulting surgeon-accoucheur.

At the *Bristol Medical School* no changes are announced among the lecturers, and at the *Royal Infirmary* the only change is the appointment of Dr. Edward L. Fox as consulting physician. There have been no changes at the *General Hospital*.

At the *Leeds School of Medicine*, and at the *Liverpool School of Medicine*, the changes are unimportant. At the infirmary in the latter town Mr. Rushton Parker has been appointed assistant-surgeon, Mr. Damer Harrison resident medical officer, and Mr. Paul pathologist.

At *Owens College, Manchester*, there have been no changes among the medical professorships and lecturerships, but at the *Royal Infirmary* there have been several changes. The melancholy death of Dr. Eason Wilkinson and the appointment of Dr. Henry Browne as consulting physician caused a vacant physiciancy which has been filled up by the appointment of Dr. D. J. Leech. Dr. D. Little has succeeded Mr. Thomas Windsor as ophthalmic surgeon, and Dr. Graham Steele has been made resident medical officer.

At the *University of Durham College of Medicine* (Newcastle-upon-Tyne), Mr. W. P. Mears has succeeded Dr. Luke Armstrong as one of the lecturers on Anatomy. Dr. D. Drummond has succeeded Dr. Hume as lecturer on Physiology, Dr. T. W. Barrow following the former gentleman as lecturer on Therapeutics. Dr. Luke Armstrong has taken the class of Operative Surgery, *vice* Dr. G. Y. Heath.

At the *Sheffield School* Mr. Snell has been appointed one of the lecturers on Anatomy, and Messrs. R. T. Pye-Smith and W. D. James have been appointed assistant-demonstrators of Anatomy.

At the *University of Aberdeen* the only change is the appointment of Dr. Stirling as professor of the Institutes of Medicine, *vice* Dr. Ogilvie Forbes.

At the *Edinburgh School of Medicine* the changes have been more numerous. Dr. Angus Macdonald has succeeded Dr. Matthews Duncan as lecturer on Midwifery and Diseases of Women for the winter course, and Dr. C. Bell follows him for the summer course. Dr. John Wyllie has succeeded Dr. Rutherford Haldane as lecturer on the Practice of Physic.

At the *University of Glasgow* Dr. Cleland has succeeded Dr. Allen Thomson in the chair of Anatomy.

At *Anderson's College*, Glasgow, there are no changes in the staff of teachers.

At *Dr. Steevens' Hospital and Medical College*, Dublin, Dr. H. Freke, Mr. W. M. Burke, Mr. S. G. Wilmot, and Mr. C. Fleming have been appointed consultants. Dr. T. W. Grimshaw has succeeded Dr. Freke as professor of Medicine; Mr. R. Johnston taking the chair of Materia Medica vacated by Dr. Grimshaw. Dr. R. Bookey has been appointed professor of the Institutes of Medicine, and physician to the hospital; and Mr. F. W. Warren lecturer on Anatomy. Messrs. R. A. Hayes and H. Pentland have been made demonstrators of Anatomy.

At *Queen's College*, Belfast, and *Queen's College*, Cork, and at the hospitals connected therewith, the changes have been unimportant.

At *Queen's College*, Galway, Dr. Joseph P. Pye has succeeded Dr. Cleland in the chair of Anatomy, the chairs of Materia Medica and of Medical Jurisprudence thus vacated by Dr. Pye being filled by the appointment of Dr. Nicholas W. Colahan and Dr. Richard J. Kinkead respectively.

ON BOOKS.

ONE of the first questions the student asks himself is, "What are the books most suitable for me to read?" The answer is not always easy, for the number of text-books in medicine and cognate subjects is so vast, and in many instances so excellent, that a choice is at once embarrassing and invidious. Then, again, the style and character of the various examinations show great diversity, and although it would not be right to counsel any student to limit too much the standard of his acquirements, still it must be acknowledged that the course of reading necessary for the diploma of the Apothecaries' Hall is more limited than that for the degree of Bachelor of Medicine at the University of London. We may cursorily run over the chief books which a thorough medical education would require, always understanding that for the minor examinations the smaller works may be used.

Here a word of warning may be given as to the use, or rather the abuse, of what are commonly known as "cram-books." Such works, unfortunately, are far too numerous, but they are publications which no earnest student should ever countenance. It is more than doubtful whether they ever really stand him in good stead at the time of examination; and, if they did, the evil they would have inflicted on him by cramping his mental faculties would not be worth

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this trifling gain. To pass an examination by means of "aids" such as these is worse than failing, and this fact will too soon be learnt by the luckless individual who relies on them when the cares and responsibilities of practice meet him unawares. Let his first canon in reading, then, be this—to avoid all such books which profess to make the paths of examination smooth. The second canon is—not to read *too much*. This is a very besetting fault of all students who devote hours at a time to "steady reading." They pass over page after page, read their "Gray" or "Bryant" through several times, and yet find how little real benefit they have derived. They even learn pages of "Kirkes" by heart, and vainly pride themselves on the knowledge they have acquired. It is no uncommon experience for an examiner to find an answer to his question framed "word for word" in the same language as is to be found in such a page of the textbook. No wonder that such a candidate fails to obtain a place, or takes a much lower place, in the class-list, than his less over-read brother competitor. Reading should be done slowly and methodically, and step by step the student should see if he comprehends what he has read. Lastly, it is well to limit the scope of reading, but not too much, lest the ideas gained be narrow and one-sided. Thus it behoves the student to be cautious in his selection of books; to choose those most fitted for the course of study prescribed for him, to purchase those books, and study them; and also, where and when necessary, to enlarge his ideas by reference to other works in the school library. But, above all, he should not let his reading interfere with or supplant his practical work in the laboratory, dissecting-room, ward, or dead-house; but should use his books rather as supplementing the knowledge thus gained.

In the first place it will be convenient to refer to the textbooks on those sciences which, collateral to medical study, are often left for the student to gather information about in his first year. The time is, it may be hoped, fast approaching when no student shall be placed upon the register before passing an examination which shall include these subjects. At present they stand sadly in his way, and hamper his course by compelling him to devote that time to their pursuit which, if it were already complete, would be more profitably employed in the study of strictly professional topics. The medical curriculum will not be perfect until a "preliminary scientific examination" shall no longer be restricted to candidates for university degrees. In *Chemistry*, which, with botany, now forms part of the first year's course, there are text-books innumerable. To the beginner there is no better book than Professor Barff's "Introduction to Chemistry," but its scope is too limited even for the requirements of the Apothecaries' Hall examination. Professor Roscoe's little work on "Elementary Chemistry" travels over the whole range of the subject, and if thoroughly mastered will be found all-sufficient. By those who wish to dive deeper, Fownes', Attfield's, or Williamson's work, or that of the late Professor Miller, may be studied. The latter, however, is too extensive for any except those who are anxious to obtain university honours. It has the advantage also of containing a lengthy introduction on the subject of Physics. In Practical Chemistry, best acquired at the hands of the teacher, useful additional guides will be found in Professor Odling's or Bowman's works; whilst Dr. Ralfe has devoted a small treatise to the subject of "Physiological Chemistry," which some may like to study later in connexion with the lectures on Physiology. In *Natural Philosophy and Physics*, some of the pleasantest books to read are Ganot's Physics, and the works on Heat, Sound, and Electricity, by Professor Tyndall, these latter being books that may be read in hours of leisure rather than allowed to interfere with the severer course of study. Similar subjects are treated of in Deschanel's treatise which may be obtained in separate parts. In *Botany*, there are Professor Oliver's "Elementary Botany," and Professor Balfour's or Bentley's work; and more elementary than either will be found Cooke's "Structural Botany," and Dr. Silver's little book. For *Zoology and Comparative Anatomy*, Professor Nicholson has issued several books, each of different degrees of advancement; but, where the student has need for more complete instruction, he should not fail to read Professor Huxley's two books, the one on the Vertebrate and the other on Invertebrate Animals. The same author's "Introduction to the Study of Comparative Anatomy "gives, in small compass, a large amount of information. Mr. Bradley's and Dr. Ord's smaller "Outlines" should also be mentioned as giving clear and concise summaries of the subject.

We now come to the two subjects which will engross the student's attention for the first eighteen months of his career. Anatomy can only be learnt properly by constant and assiduous dissection—aided by careful reading. The number of works that have been written on this subject for the use of students is large indeed. For practical work in *Anatomy* the most complete and trustworthy is Prof. Ellis's "Demonstrations in Anatomy," which has stood the test of quite a generation of students, and is apparently as much appreciated as ever. Less exhaustive, but almost as useful, is Mr. Holden's Manual of Dissections. For the systematic study of the subject after the practical work is over for the day, Gray's Anatomy holds a well-deserved place; whilst the book which has obtained a world-wide reputation is Quain's Anatomy—the representative work of English anatomical science. Subsidiary to these, are sundry works on Osteology—such as those by Holden, Ward, Norton, or Wagstaffe. For help in recalling the parts dissected—and very useful therefore when the student cannot be engaged in his practical pursuits—are the excellent "Plates" of Ellis, and those now in course of publication) of Mr. Godlee; whilst as a companion to the dissecting-room, and as a help to the student in recording the facts he observes, may be mentioned the "Outlines" now being issued by Mr. Hensman. In the department of "Regional Anatomy," there are the plates of Professor Braune, recently republished with English text by Mr. Bellamy. Dr. Sibson's work on "Medical Anatomy" is of great value in the same department; and Messrs. T. Smith and Walsham, and Mr. Holden, have written smaller works dealing with the 'landmarks' of the body. In *Physiology*, to those who desire to master all the essentials of the subject without caring to dive too deep into the more advanced topics, Professor Huxley's "Elementary Physiology" may be strongly recommended. Any student who thoroughly reads this book will be well furnished to meet most of the questions that may be set before him. But as he has two years in which to learn the subject, it would be well if, after reading Huxley in his first year, he should go further in his second. The last edition of Kirkes' "Physiology" will take him a step further, and it is a book which for the majority has become the most favoured of all textbooks on the subject. But it does not suffice for the higher course of study, and to those who pursue that Professor Foster's "Text-book," Hermann's "Elements," or Professor Flint's work will be found of greater use. Carpenter's "Human Physiology" is also excellent, though somewhat overburdened with extraneous matter; but his smaller "Manual," edited by Dr. Pye-Smith, will shortly be published, and may be found a formidable competitor for popularity with some of those above-named. Allied to these subjects is Histology, which year by year is obtaining a firmer foothold, and requiring increased application for its study. The sections dealing with it in Quain's "Anatomy" are the best that have been written on the subject; and as an aid to the practical work (wherein alone it can be properly learnt) Professor Schäfer's little book on "Practical Histology," and Dr. Rutherford's "Outlines," stand first. In Practical Physiology—a subject which of necessity can be followed out only by a few—the large "Handbook to the Physiological Laboratory," edited by Dr. Sanderson, is the only English work.

Continuing in the line of the student's course, there is next to be taken up *Materia Medica and Therapeutics*. In the former Dr. Garrod's and Mr. Scoresby-Jackson's works are the best, and of smaller size are the compendia of Dr. Thorowgood, Dr. Royle, Dr. Farquharson, and Dr. Milne. Wood's "Materia Medica and Therapeutics," and Phillips's work, are both of them of a high class, and deal largely with the subject from the physiological point of view. Dr. Ringer's and Dr. Waring's Therapeutics are works devoted specially to that subject, and abound in practical hints and suggestions. In *Medical Jurisprudence* the books most suitable for students are Taylor's Manual, and Guy's "Forensic Medicine," which embrace all branches of the subject; but Taylor "On Poisons," and his larger work on "Medical Jurisprudence"

OPY AVAILABLE

may profitably be referred to; as also may be the rather unwieldy book published last year from the pens of Drs. Tidy and Woodman. In *Medicine* there are several text-books from which students will have to make their choice. Each has its own peculiarities. That of Dr. Tanner may be mentioned the first, because it has been longest in the field, and also because it is fully sufficient for most purposes. It is eminently practical. The handbook of Dr. F. T. Roberts is, however, perhaps the more useful, and abounds in information supplied in a thoroughly systematic manner, although, from the very extensive range travelled over, the subject is necessarily condensed, and the book, therefore, no light reading. It is pre-eminently a student's book. The work of Dr. Bristowe is more original, and is valuable especially in its pathological portions, and in the admirable account given of diseases of the nervous system. Dr. Aitken's "Outlines" are also good. But for a work which is both pleasant in the reading and valuable for its suggestiveness, the text-book of Professor Niemeyer takes the front rank. Certainly no candidate for the higher examinations should fail to read this book, and to carefully study it, for although in some sections it hardly comes up to the standard of some English authorities, yet, as a whole, there is no work like it. Nor should Dr. Watson's famous book on the "Principles and Practice of Physic" be omitted, for many an hour may be passed both profitably and with pleasure in the perusal of these classical lectures. Those who intend taking high degrees, such as the M.D., should read much of the "System of Medicine" edited by Dr. Reynolds, and the time would not be wasted in the perusal also of several of Trousseau's admirable lectures on Clinical Medicine, translated by the Sydenham Society. Such candidates also would do well to read such monographs as Dr. Murchison on Diseases of the Liver, or those on Diseases of the Kidney by Drs. W. Roberts, Grainger Stewart, or Dickinson; and also to consult Dr. Walshe's works on Diseases of the Lungs, and Diseases of the Heart, or the lectures of Dr. Balfour on the last-named subject. On diseases of the nervous system there are the lectures published this year by Dr. Wilks, those of M. Charcot, some of which have been issued by the Sydenham Society, and the treatises of Althaus, Hammond, and others, and of Dr. Bastian on Paralysis from Brain Disease. As guides in clinical work the little books of Dr. Tanner, and Dr. Fenwick; in Medical Diagnosis, Da Costa, or Dr. Barclay, and the Manual on Auscultation and Percussion, by Dr. Gee, will be found very useful. Of works on *Pathology* the best to serve as an introduction to the subject is Dr. Green's little book, which has run through many editions. The second edition of Jones and Sieveking's "Pathological Anatomy," edited by Dr. Payne, might be read, although there is much matter in it hardly consonant with present advances in the subject. The text-book of Drs. Wilks and Moxon is valuable as a companion to the museum and dead-house; whilst for Pathological Histology, for more advanced students, the work of Rindfleisch (Syd. Soc.), and to those who read French, that of MM. Cornil and Ranvier may be recommended. In *Surgery*, of late years, new text-books have appeared which have gone to displace some that used to be relied on. The two works by Mr. Bryant and Mr. Holmes respectively are perhaps now the most widely read. Bryant's book is especially good, and if the typography were improved, would be admirable. New editions of both these works are in preparation. Druitt's "Vade-Mecum" is now less sought after, for it has not been thoroughly kept up in all its departments to modern doctrines. Still, by some, it may be preferred to either Bryant or Holmes. Of larger works, Erichsen's "Science and Art of Surgery" need only be mentioned. Its merits are well and widely known. And the same may be said of Holmes's System of Surgery. Practical Surgery has been treated by Sir W. Fergusson, Mr. Spence, Dr. Pirrie, and Mr. Syme in books which have obtained a deserved repute. Minor works on Operative Surgery, such as those by Messrs. Bell and Maunder, are of great use to the student in his career as dresser or house-surgeon, as also are Mr. Hill's on Bandaging and Mr. Heath's on Minor Surgery. On Surgical Pathology a small text-book is sadly needed. Such we may hope will shortly be forthcoming from the pen of Mr. Marcus Beck. Meanwhile Sir Jas. Paget's lectures and those of Prof. Billroth are the chief works available, but both are beyond the needs of the ordinary student. In the department of *Midwifery* the best works are those of Playfair and Leishman, and Dr. Robert Barnes' or Mr. Clay's work on "Obstetric Operations." With these the student preparing for University degrees would be well armed; whilst for emergencies Dr. Swayne's "Obstetric Aphorisms for Students" is excellent, and may be used in conjunction with the lectures attended by the student. In *Gynæcology* the small book of Dr. Lombe Atthill is deservedly popular. More extensive information may be found in the larger works of Drs. Barnes, Graily Hewitt, and Thomas.

There still remain some special subjects which the student may require to pursue. In *Dermatology* there are the small books, abounding in information, by Dr. Tilbury Fox and Dr. Liveing; and larger works, such as that by the first-named author, and Pullar's translation of Neumann's text-book. On *Diseases of the Eye*, Mr. G. Lawson's book is the most useful for the student. On the *Diseases of the Ear*, Hinton, Dalby, Allen, or Keene. In *Medical Electricity* there are the works of Dr. Vivian Poore, and those by Dr. Reynolds and Mr. De Watteville. In *Dental Anatomy* Mr. Chas. Tomes has written a useful book; and in *Dental Surgery* the works of Tomes and Hyde Salter are those most consulted. In *Hygiene*, Professor Wilson's work, or the larger well-known treatise of Dr. Parkes. Lastly, it may be added that at the M.D. examination of the University of London the subject of *Logic and Moral Philosophy* may be sufficiently gleaned from the works of Professor Jevons on the former topic and Professor Bain on the latter.

Such, in brief, are some of the books, best known and most needed, which the student may have occasion to peruse. They can only be indicated here; but as to those he had best select to add to his own library he should seek information from his teachers.

SESSION 1878-79.

GENERAL COUNCIL OF MEDICAL EDUCATION AND REGISTRATION OF THE UNITED KINGDOM.

Registration of Medical Students.—The following regulations have been adopted by the General Medical Council in reference to the registration of students in medicine:—Every medical student shall be registered in the manner prescribed by the General Medical Council. No medical student shall be registered until he has passed a preliminary examination as required by the General Medical Council, and has produced evidence that he has commenced medical study. The commencement of the course of professional study recognised by any of the qualifying bodies shall not be reckoned as dating earlier than fifteen days before the date of registration. The registration of medical students shall be placed under the charge of the branch registrars. Each of the branch registrars shall keep a register of medical students according to a prescribed form, wherein is set forth the name, the preliminary examination and date thereof, the date of registration, and the place and date of commencement of medical study, as certified by a master, or a teacher, or an official in a medical school or hospital. Every person desirous of being registered as a medical student shall apply to the branch registrar of the division of the United Kingdom in which he is residing; and shall produce or forward to the branch registrar a certificate of his having passed a preliminary examination as required by the General Medical Council, and evidence that he has commenced medical study. The branch registrar shall enter the applicant's name and other particulars in the Students' Register, and shall give him a certificate of such registration. Each of the branch registrars shall supply to the several qualifying bodies, medical schools, and hospitals, in that part of the United Kingdom of which he is registrar, a sufficient number of blank forms of application for the registration of medical students. The several Branch Councils shall have power to admit special exceptions to the foregoing regulations as to registration for reasons which shall appear to them satisfactory. A copy of the Register of Medical Students, prepared by each of the branch registrars, shall be transmitted, on or before the 31st December in each year, to the registrar of the General Council, who shall, as soon as possible thereafter, prepare and print, under the direction of the Executive Committee, an alphabetical list of all students registered in the preceding year, and supply copies of such authorised

list to each of the bodies enumerated in Schedule A to the Medical Acts, and through the branch registrars to the several medical schools and hospitals. The several qualifying bodies are recommended not to admit to the final examination for a qualification under the Medical Acts any candidate (not exempted from registration) whose name has not been entered in the Medical Students' Register at least forty-five months previously. In the case of candidates from other than schools of the United Kingdom, the Branch Councils shall have power to admit exceptions to this recommendation.

Communications relating to the Medical Students' Register, or to the registration of medical students, should be sent to the registrars, at the following addresses:—W. J. C. Miller, B.A., Registrar of the General Medical Council, 315, Oxford-street, London, W.—Archibald Inglis, M.D., Registrar of the Branch Council for Scotland, 33, Albany-street, Edinburgh.—W. E. Steele, M.D., Registrar of the Branch Council for Ireland, 35, Dawson-street, Dublin.

REGULATIONS OF THE MEDICAL EXAMINING BOARDS IN THE UNITED KINGDOM.

UNIVERSITY OF OXFORD.

Every student must reside in one or other of the Colleges or Halls, or in licensed lodgings, for a period of three years, passing at least two examinations in Arts, and one in either Mathematics, Natural Science, Law, Modern History, or Theology, when, if he obtain a first, second, or third class, he can take his B.A. degree; if he do not gain such honour, he has to pass a third examination in *Literis Humanioribus*.

A student desiring to graduate in Medicine must pass the requisite examinations for the degree of B.A. He must afterwards spend two years in study[1] prior to the first or scientific examination for the degree of Bachelor of Medicine, and two years more, after passing the first, prior to the final or practical examination for the same degree. Evidence must be brought to show that he has studied the practical parts of his profession in a first-class hospital.

There is an examination in State Medicine and Public Health, to which Bachelors of Medicine of the University are admissible. Copies of the examination-papers in the several examinations may be obtained through any bookseller.

A dissertation has to be publicly read, three years after obtaining the M.B., before being eligible for the M.D.

The study of Natural Science is carried on at the Museum. There are extensive opportunities there for the study of Physics, Chemistry, General, Comparative, and Human Anatomy, Histology, and other departments of Natural Science, together with courses of lectures and of practical instruction by the several professors. Collections illustrate the various subjects. There is a pathological series, including the collection of Schroeder Van der Kolk, in the medical department, and a sanitary laboratory, conducted by the public analyst. The Radcliffe Library, containing above 20,000 scientific volumes, is open to all students daily from 10 till 4, and on certain evenings during term. There are also lectures and practical instruction in Botany at the Botanical Gardens, and clinical instruction at the Infirmary.

The medical examinations take place annually in the Michaelmas term.

Scholarships of about the value of £75 are obtainable at Christ Church, Magdalen, and other colleges, by competitive examination in Natural Science. Every year a Radcliffe Travelling Fellowship is competed for by any who, having taken a first class in any of the schools, or having obtained a University prize or scholarship, propose to study Medicine. The Travelling Fellows receive £200 a year for three years, half this period being spent in study abroad.

More detailed information may be obtained from the University Calendar; from the Students' Handbook to the University; from the Regius Professor of Medicine; from the Professors in the several departments; from E. Chapman, Esq., M.A., Frewin Hall; and from the Sub-Librarian in the Radcliffe Library at the Museum.

Regius Professor of Medicine—H. W. Acland, M.D., LL.D., F.R.S.
Professor of Geometry—H. S. Smith, M.A., F.R.S.
Professor of Natural Philosophy—Rev. B. Price, M.A., F.R.S.
Professor of Experimental Physics—S. Clifton, M.A., F.R.S.
Linacre Professor of Physiology—G. Rolleston, M.D., F.R.S.
Professor of Chemistry—W. Odling, M.A., F.R.S.
Professor of Zoology—J. O. Westwood, M.A., F.L.S.
Professor of Geology—J. Prestwich, M.A., F.R.S.
Professor of Botany—M. Lawson, M.A.
Professor of Mineralogy—N. S. Maskelyne, M.A., F.R.S.
Lee's Reader in Anatomy—J. B. Thompson, B.A.
Demonstrator in Anatomy—Charles Robertson, Esq.
Demonstrator in Chemistry—J. Fisher, M.A.
Public Analyst in Sanitary Laboratory—W. F. Donkin, M.A.

UNIVERSITY OF CAMBRIDGE.

The student must enter at one of the Colleges, or as a non-collegiate student, and keep terms for three years by residence in the University. He must pass the Previous Examination in Classics and Mathematics, which may be done in the first or second term of residence, or, through the Oxford and Cambridge Schools Examination Board, before commencing residence. He may then devote himself to medical study in the University, attending the hospital and the medical lectures, dissecting, &c. Or he may proceed to take a degree in Arts, either continuing mathematical and classical study, and passing the ordinary examinations for B.A., or going out in one of the Honour Triposes. The Natural Science Tripos is preferred by most medical students, some of the subjects for this Tripos examination (Chemistry, Botany, Human and Comparative Anatomy, and Physiology) forming part of the series of medical study.

The expenses of residence, lectures, &c., at a college are about £150 per annum; but these are in many cases lessened by scholarships, ranging in value from £20 to £80 a year, which are very numerous, and obtainable by most students of industry and ability. They are chiefly given for mathematical and classical proficiency. Some may be obtained at once, even before entering; and notices of the times of examination for these are given from time to time under the head of "University Intelligence," in *The Times* and other newspapers. Scholarships are given for Natural Science in Trinity, St. John's, St. Peter's, Clare, Christ's, Sydney, Pembroke, Caius, and Downing Colleges; the examinations being at Easter, and in June and October.[2]

Non-collegiate students can reside at less expense (£80 or £90 a year) than those who enter a College. They are allowed to attend certain of the College lectures and all the professors' lectures, and have the same University status and privileges as the other students. They are under the superintendence of the Rev. R. B. Somerset, Orford House, Cambridge, from whom further information may be obtained.

For the degree of *Bachelor in Medicine* five years of medical study are required, except in the case of medical students who have graduated with honours as Bachelors of Arts, four years being then sufficient. This time may be spent in Cambridge or elsewhere. The earlier portion of it is usually spent in Cambridge, the student remaining in the University till he has passed the examination for the Natural Sciences Tripos and the first and second examinations for M.B.

There are three examinations for M.B. The *first* in Chemistry and other branches of Physics, and Botany. The *second* in Anatomy and Physiology (Human and Comparative), and Pharmacology. The *third* (at the conclusion of medical study) in Medicine, Surgery, Midwifery, and Medical Jurisprudence. The examinations are partly in writing and partly oral, in the hospital, in the dissecting-room, and in the laboratories. They take place twice annually (in June and December).

An Act has to be kept, which consists in reading an original thesis and passing a *viva voce* examination on the subject of the thesis and on other subjects.

Previously to the first examination, lectures must have been attended on Chemistry (with manipulations) and Botany. Previously to the second examination, the student must have attended lectures on Human Anatomy and Physiology, Comparative Anatomy, Materia Medica and Pharmacy, and Pathology; have Dissected one season; and attended Hospital Practice one year. Previously to the third examination, lectures must have been attended on

[1] If he have taken the higher honours in the Natural Science School he may go in for the first M.B. examination on the first opportunity, and so have a longer period of practical study before the second M.B. examination.

[2] For an account of these Scholarships see THE LANCET of April 13th, 1867; and for an account of the Scholarships for Natural Sciences see *Nature* in the early part of each year. Further information may be obtained by application to the tutor of either of the Colleges.

Pathological Anatomy, the Principles and Practice of Physic, Clinical Medicine, Clinical Surgery, Midwifery (with ten cases), and Medical Jurisprudence; also Hospital Practice for three years. The candidate must also have been a clinical clerk, or have had special charge of patients in a hospital, dispensary, or parochial union, for six months.

The degree of *Doctor in Medicine* may be taken three years after M.B. An Act has to be kept, with *viva voce* examination; and an extempore essay has to be written on some subject relating to Physiology, Pathology, the Practice of Medicine, or State Medicine. A Master of Arts proceeding to M.D. is required to produce the same certificates and pass the same examinations as for M.B.

For the degree of *Master in Surgery*, the candidate must have passed the three examinations for M.B., and have attended lectures on Human Anatomy (a second course), on the Principles and Practice of Surgery, Clinical Surgery; he must have dissected a second season, have attended the Surgical Practice at a recognised hospital for three years, and have held a house-surgeoncy or dresserships for six months. He is then required to pass an examination in Surgical Anatomy, Pathology and the Principles and Practice of Surgery, and Clinical Surgery.

An examination in so much of State Medicine as is comprised in the functions of officers of health will be held yearly in Cambridge, beginning on the first Tuesday in October. Any person whose name is on the Medical Register of the United Kingdom may present himself for this examination provided he is twenty-four years of age. The examination will be in two parts. All applications for admission to this examination, or for information respecting it, should be addressed to Professor Liveing, Cambridge.

The following is a summary of the course which a student (commencing at the University, say, in October, 1878,) may follow:—He enters at any one of the colleges, or as a non-collegiate student, and passes the Previous Examination (in Classics and Mathematics) in October, 1878, or in April, 1879, unless he has already passed the equivalent examination under the Oxford and Cambridge Schools Examination Board. He is then registered as a student of medicine. Medical study in the University for two years. Natural Sciences Tripos examination (in Human and Comparative Anatomy, Chemistry, and Botany), June and December, 1881; this admits to B.A. degree in June, 1881. Second examination for M.B. (in Human Anatomy and Physiology, and Materia Medica), December, 1881, or May, 1882. Third examination for M.B. (in Medicine, Surgery, Midwifery, and Medical Jurisprudence), November, 1883. Examination for M.C. (in Surgical Anatomy, Pathology, and Surgery), November, 1882. Degree of M.B. or M.C., November, 1883. Part of the period of medical study is thus spent in Cambridge, and part (say after the second examination) in London or elsewhere.

Attendance at the hospital and on the lectures on Anatomy, Chemistry, &c., is recognised by the Universities of Cambridge and London, and by the College of Surgeons.

The students usually remain in Cambridge during part of the long vacation (July and August) and part of the Christmas vacation, as well as during the terms.

UNIVERSITY OF LONDON.

The *Preliminary Scientific (M.B.) Examination* takes place once in each year, and commences on the third Monday in July.[3] No candidate will be admitted to this examination until he shall have completed his seventeenth year, and shall have either passed the Matriculation Examination or taken a degree in Arts in one of the Universities of Sydney, Melbourne, Calcutta, or Madras (provided that Latin was one of the subjects in which he passed); nor unless he have given notice of his intention to the registrar at least fourteen days before the commencement of the examination. Fee for this examination £5.

Candidates are examined on the following subjects:—Inorganic Chemistry, Experimental Physics, Botany and Vegetable Physiology, and Zoology. The examiners will publish a list of the candidates who have passed, arranged in two divisions, each in alphabetical order. And a pass certificate signed by the registrar will be delivered to each candidate who shall apply for it, after the report of the examiners shall have been approved by the Senate.

Examination for Honours.—Any candidate who has passed the Preliminary Scientific (M.B.) Examination may be examined at the Honours Examination next following the Preliminary Scientific Examination at which he has passed for honours in (1) Experimental Physics, (2) Chemistry, (3) Botany, and (4) Zoology, unless he have previously obtained an exhibition in any one of these subjects at the First B.Sc. Examination, in which case he shall not be admissible to the examination for honours in that subject.

Bachelor of Medicine.—Every candidate for the degree of Bachelor of Medicine will be required—1. To have passed the Matriculation Examination in this University (unless he has taken a degree in Arts in one of the Universities of Sydney, Melbourne, Calcutta, or Madras, and Latin was one of the subjects in which he passed). 2. To have passed the Preliminary Scientific Examination. 3. To have been engaged in his professional studies during four years subsequently to matriculation or graduation in Arts at one or more of the medical institutions or schools recognised by this University, one year at least of the four to have been spent in one or more of the recognised institutions or schools in the United Kingdom. 4. To pass two examinations in Medicine.

First M.B. Examination.—The First M.B. Examination takes place once in each year, and commences on the last Monday in July. No candidate shall be admitted to this examination unless he have passed the Preliminary Scientific Examination at least one year previously, and have produced certificates to the following effect:—1. Of having completed his nineteenth year. 2. Of having, subsequently to having passed the Matriculation Examination, or taken a degree in Arts in one of the before-named universities, been a student during two years at one or more of the medical institutions or schools recognised by this University, and of having attended a course of lectures on each of three of the subjects in the following list:—Descriptive and Surgical Anatomy, Histology and Physiology, Pathological Anatomy, Materia Medica and Pharmacy, General Pathology, General Therapeutics, Forensic Medicine, Hygiene, Obstetric Medicine and Diseases peculiar to Women and Infants, Surgery, Medicine. 3. Of having, subsequently to having passed the Matriculation Examination, or taken a degree in Arts, Dissected during two winter sessions. 4. Of having, subsequently to having passed the Matriculation Examination, or taken a degree in Arts, attended a course of Practical Chemistry, comprehending practical exercises in conducting the more important processes of General and Pharmaceutical Chemistry; in applying tests for discovering the adulteration of articles of the Materia Medica, and the presence and nature of Poisons; and in the examination of mineral waters, animal secretions, urinary deposits, calculi, &c. 5. Of having attended to Practical Pharmacy, and of having acquired a practical knowledge of the Preparation of Medicines. These certificates (as is the case also with all the certificates hereinafter mentioned), must be transmitted to the registrar at least fourteen days before the commencement of examination. Fee for this examination £5.

Candidates will be examined in the following subjects:—Anatomy, Histology and Physiology, Materia Medica and Pharmaceutical Chemistry, Organic Chemistry. Candidates will not be approved by the examiners unless they have shown a competent knowledge in all the subjects of examination.

Examination for Honours.—Any candidate who has passed the First M.B. Examination may be examined at the Honours Examination next following the First M.B. Examination at which he passed, for Honours in (1) Anatomy, (2) Histology and Physiology, (3) Organic Chemistry, and (4) Materia Medica and Pharmaceutical Chemistry. The examinations take place in the week following that in which the Pass Examination commenced. They are conducted by means of printed papers; but the examiners will not be precluded from putting *viva voce* questions upon the written answers of the candidates when they appear to require explanation.

If, in the opinion of the examiners, sufficient merit be evinced, the candidate who shall distinguish himself the most in Anatomy, and the candidate who shall distinguish himself the most in Histology and Physiology, will each receive an exhibition of £40 per annum for the next two years, payable in quarterly instalments; the candidate who shall distinguish himself the most in Organic Chemistry, and the

[3] Candidates for the Degree of M.B. are strongly recommended by the Senate to pass the Preliminary Scientific Examination before commencing their regular medical studies, and to devote a preliminary year to preparation for it according to the following programme:—Winter Session: Experimental Physics, Chemistry (especially Inorganic), Zoology. Summer Session: Practical Chemistry (Inorganic), Botany.

candidate who shall distinguish himself the most in Materia Medica and Pharmaceutical Chemistry, will each receive an exhibition of £30 per annum for the next two years, payable in quarterly instalments; provided that on receiving each instalment he shall declare his intention of presenting himself at the Second M.B. Examination within three academical years from the time of his passing the First M.B. Examination. Under the same circumstances, the first and second candidates in Anatomy, and in Histology and Physiology, and the first candidate in Organic Chemistry, and in Materia Medica and Pharmaceutical Chemistry, will each receive a gold medal of the value of £5.

Second M.B. Examination.[4]—The Second M.B. Examination takes place once in each year, and commences on the first Monday in November. No candidate is admitted to this examination within two academical years of the time of his passing the First Examination, nor unless he has produced certificates to the following effect:—1. Of having passed the First M.B. Examination. 2. Of having, subsequently to having passed the First M.B. Examination, attended a course of lectures on each of two of the subjects enumerated in section 2 of the regulations for that examination, and for which the candidate had not on that occasion presented certificates. 3. Of having conducted at least twenty labours. Certificates on this subject will be received from any legally-qualified practitioner in medicine. 4. Of having attended the Surgical Practice of a recognised hospital or hospitals during two years, with clinical instruction and lectures on Clinical Surgery. 5. Of having attended the Medical Practice of a recognised hospital or hospitals during two years, with clinical instruction and lectures on Clinical Medicine. 6. Of having, after having attended Surgical and Medical Hospital Practice for at least twelve months subsequently to passing the First M.B. Examination, attended to Practical Medicine, Surgery, or Obstetric Medicine, with special charge of patients, in a hospital, infirmary, dispensary, or parochial union, during six months, such attendance not to be counted as part of either the Surgical or the Medical Hospital Practice prescribed in Clauses 4 and 5. 7. Of having acquired proficiency in Vaccination. Certificates on this subject will be received only from the authorised vaccinators appointed by the Privy Council. The candidate must also produce a certificate of moral character from a teacher in the last school or institution at which he has studied, as far as the teacher's opportunity of knowledge has extended. The fee for this examination is £5.

Candidates will be examined in the following subjects:—General Pathology, General Therapeutics and Hygiene, Surgery, Medicine, Obstetric Medicine, Forensic Medicine. The examinations will include questions in Surgical and Medical Anatomy, Pathological Anatomy, and Pathological Chemistry. Candidates will not be approved by the examiners unless they have shown a competent knowledge in all the subjects of examination.

Examination for Honours.—Any candidate who has passed the Second M.B. Examination may be examined at the Honours examination next following the Second M.B. Examination at which he has passed, for Honours in (1) Medicine, (2) Obstetric Medicine, and (3) Forensic Medicine. The examinations commence in the week following that in which the Pass Examination commenced. Except in the case of Forensic Medicine they are conducted by means of printed papers, but the examiners will not be precluded from putting *viva voce* questions upon the written answers of the candidates when they appear to require explanation.

If, in the opinion of the examiners, sufficient merit be evinced, the candidate who shall distinguish himself the most in Medicine will receive £50 per annum for the next two years, with the style of University Scholar in Medicine. Under the same circumstances the candidate who shall distinguish himself the most in Obstetric Medicine will receive £30 per annum for the next two years, with the style of University Scholar in Obstetric Medicine. Under the same circumstances, the candidate who shall distinguish himself the most in Forensic Medicine will receive £30 per annum for the next two years, with the style of University Scholar in Forensic Medicine. Under the same circumstances, the first and second candidates in each of the preceding subjects will each receive a gold medal of the value of £5.

[4] Any candidate for the Second M.B. Examination who has passed the First M.B. Examination under the former regulations, will be required to have also passed the examination in Physiology at some previous First M.B. Examination carried on under the present regulations, at which examination he shall not be allowed to compete for Honours.

Bachelor of Surgery.—The examination for the degree of Bachelor of Surgery takes place once in each year, and commences on the Tuesday following the fourth Monday in November. No candidate will be admitted to this examination unless he have produced certificates to the following effect:—1. Of having passed the Second Examination for the degree of Bachelor of Medicine in this University. 2. Of having attended a course of instruction in Operative Surgery, and of having operated on the dead subject. Fee for this examination, £5.

Any candidate who has passed the B.S. Examination may be examined at the Honours Examination next following the B.S. Examination at which he has passed, for Honours in Surgery. The examination takes place on Tuesday in the week following the Pass Examination, in the morning from 10 to 1, and in the afternoon from 3 to 6; and is conducted by means of printed papers. If in the opinion of the examiners sufficient merit be evinced, the candidate who shall distinguish himself the most will receive £50 per annum for the next two years, with the style of University Scholar in Surgery. Under the same circumstances, the first and second candidates will each receive a gold medal of the value of £5.

Master in Surgery.—The examination for the degree of Master in Surgery takes place once in each year, and commences on the fourth Monday in November.

No candidate will be admitted to this examination unless he have produced certificates to the following effect:—1. Of having taken the degree of Bachelor of Surgery in this University. (Candidates who have obtained the degree of Bachelor of Medicine previously to 1866 will be admitted to the examination for the degree of Master in Surgery without having taken the degree of Bachelor of Surgery; and in the case of such candidates, the attendance on surgical practice required by regulation 2 may commence from the date of the M.B. degree.) 2. Of having attended, subsequently to having taken the degree of Bachelor of Surgery in this University, (*a*) To Clinical or Practical Surgery during two years in a hospital or medical institution recognised by this University. (*b*) Or to Clinical or Practical Surgery during one year in a hospital or medical institution recognised by this University, and of having been engaged during three years in the practice of his profession. (*c*) Or of having been engaged during five years in the practice of his profession, either before or after taking the degree of Bachelor of Surgery in this University. One year of attendance on Clinical or Practical Surgery, or two years of practice, will be dispensed with in the case of those candidates who at the B.S. Examination have been placed in the first division. 3. Of moral character, signed by two persons of respectability. Fee for the degree of Master in Surgery, £5. The examination is conducted by means of printed papers and *viva voce* interrogation.

Candidates will be examined in Logic, Psychology, and Surgery. Candidates will not be approved by the examiners unless they have shown a competent knowledge in both the subjects of examination.

If in the opinion of the examiners sufficient merit be evinced, the candidate who shall distinguish himself the most in Surgery at the examination for the degree of Master in Surgery will receive a gold medal of the value of £20.

Doctor of Medicine.—The examination for the degree of Doctor of Medicine takes place once in each year, and commences on the fourth Monday in November.

No candidate will be admitted to this examination unless he have produced certificates to the following effect:—1. Of having passed the Second Examination for the degree of Bachelor of Medicine in this University. 2. Of having attended, subsequently to having taken the degree of Bachelor of Medicine in this University, (*a*) to Clinical or Practical Medicine during two years in a hospital or medical institution recognised by this University; or (*b*) to Clinical or Practical Medicine during one year in a hospital or medical institution recognised by this University, and of having been engaged during three years in the practice of his profession. (*c*) Or of having been engaged during five years in the practice of his profession, either before or after taking the degree of Bachelor of Medicine in this University. One year of attendance on Clinical or Practical Medicine or two years of practice will be dispensed with in the case of those candidates who at the Second M.B. Examination have been placed in the first division. 3. Of moral character, signed by two persons of respectability. The fee for the

degree of Doctor of Medicine is £5. The examination is conducted by means of printed papers and *viva voce* interrogation.

Candidates will be examined in Logic and Psychology and Medicine. Candidates will not be approved by the examiners unless they have shown a competent knowledge in both the subjects of examination. If in the opinion of the examiners sufficient merit be evinced, the candidate who shall distinguish himself the most in Medicine at the examination for the degree of Doctor of Medicine will receive a gold medal of the value of £20.

A certificate under the seal of the University, and signed by the Chancellor, will be delivered at the public presentation for degrees to each candidate who has passed.

UNIVERSITY OF DURHAM.

Candidates for registration as students in Medicine must have passed the Medical Registration Examination appointed by the University, or such other examination as the Warden and Senate may deem equivalent thereto. Any Arts examination recognised by the General Medical Council is accepted by the University.

Two licences and three medical degrees are conferred by the University of Durham—viz., licences in Medicine and Surgery, and the degrees of Bachelor of Medicine, Master in Surgery, and Doctor of Medicine.

Licence in Medicine.—1. The candidate must produce certificates of registration as a student in medicine, of good moral conduct, of having attained the age of twenty-one years, and such certificates of attendance on lectures and hospital practice as the Warden and Senate shall require. 2. The candidate must have been engaged in medical and surgical study for four years after registration as a student in medicine. One of the four years must be spent at the University of Durham College of Medicine, Newcastle-on-Tyne; the other three may be spent either at Newcastle-on-Tyne or at one or more of the schools recognised by the licensing bodies named in Schedule A of the Medical Act, 1858.

There are two Professional Examinations. The first is held at the end of the second winter session; the final at the end of the fourth year of medical study.

Licence in Surgery.—The regulations are the same as those for the licence in medicine, except that the Final Examination is directed more particularly to surgery, and may or may not be passed at the same time as the Final Examination for the licence in medicine.

Degree of Bachelor of Medicine.—1. The candidate must produce certificates of registration as a student in medicine, of good moral conduct, of having attained the age of twenty-one years, and such certificates of attendance on lectures and hospital practice as the Warden and Senate shall require. 2. The candidate must have obtained a degree in Arts of the University of Durham, or must have passed the Arts Examination for graduation in medicine of the University, or must produce one or other of the following certificates:—(*a*) A certificate of graduation in Arts at any of the following Universities—viz., Oxford, Cambridge, Durham, London, Dublin, Queen's University (Ireland), Edinburgh, Glasgow, St. Andrews, Aberdeen, Calcutta, Madras, Bombay, McGill College (Montreal), and Queen's College (Kingston). (*b*) A certificate of having passed the Preliminary or Extra-Professional Examination for graduation in Medicine of any of the following Universities—viz., London, Edinburgh, Glasgow, St. Andrews, Aberdeen, Queen's University (Ireland); the Arts Examination qualifying for the Membership of the Royal College of Physicians of London; the Arts Examination qualifying for the Fellowship of the Royal College of Surgeons of England. 3. The candidate must have been engaged in medical and surgical study for four years after registration as a student in medicine. One of the four years must be spent at the University of Durham College of Medicine, Newcastle-on-Tyne; the other three may be spent either at Newcastle-on-Tyne or at one or more of the schools recognised by the licensing bodies named in Schedule A of the Medical Act, 1858.

There are two Professional Examinations. The first is held at the end of the second winter session, the final at the end of the fourth year of medical study. The subjects are the same as for the licence in medicine, but the examinations are more stringent.

Degree of Master in Surgery. — The regulations are the same as for the degree of Bachelor of Medicine, except that the Final Examination is directed more particularly to surgery.

Degree of Doctor of Medicine. — 1. The candidate must have obtained the degree of Bachelor of Medicine, must be of the age of twenty-four years, and must have been engaged, subsequently to his having received the degree of Bachelor of Medicine, for at least two years in attendance on a hospital, or in the military or naval services, or in medical and surgical practice. 2. The candidate must write an essay, based on original research or observation, on some medical subject, selected by himself, and approved of by the professor of medicine, and must pass an examination thereon.

Examination for the Degree of Doctor of Medicine for Medical Practitioners of fifteen years' standing, without residence. — The Warden and Senate of the University of Durham, with the view of affording to practitioners of fifteen years' standing an opportunity of obtaining the degree of Doctor of Medicine, have instituted a Special Examination, under the following regulations: — (1) That the candidate shall be registered by the General Medical Council. (2) Shall have been in the active practice of his profession for fifteen years. (3) Shall not be under forty years of age. (4) Shall produce a certificate of moral character from three registered members of the medical profession. If he has not passed a previous examination in Arts (5) he shall be required to pass an examination in Classics and Mathematics; and (6) he shall be required to translate into English passages in any of the parts specified below of any one of the Latin authors mentioned: Cæsar, De Bello Gallico, first three books; Virgil, first three books of the Æneid; Celsus, first three books. The candidate shall have an opportunity of showing proficiency in Greek, Moral Philosophy, or some modern language. (7) That the candidate shall be required to pass a Professional Examination. (8) The fee shall be fifty guineas, payable when the candidate enters his name for the examination. (9) In case of failure twenty guineas shall be retained, but if he shall again offer himself the sum of forty guineas only shall then be required.

State Medicine.—For the certificate of proficiency in Sanitary Science, the candidate must be a registered medical practitioner; he must have attended one course of lectures on Public Health at the University of Durham College of Medicine, Newcastle-on-Tyne, extended over one winter session; and he will be required to pass an examination in Physics, Chemistry, Sanitary Legislation, Vital Statistics, Meteorology, Climatology, and Geographical Distribution of Diseases in the United Kingdom, Sanitary Medicine, and Practical Hygiene. Fee, five guineas.

For the certificate of proficiency in Sanitary Science for Medical Officers of Health, the candidate must be a registered medical practitioner, not under thirty years of age; must have acted as a medical officer of health for five years; must pass the same examination as particularised above; and will be required to write an essay upon some practical sanitary subject, upon which and upon other sanitary questions he will be examined. Fee ten guineas.

Gentlemen intending to offer themselves as candidates are requested to forward their names to Dr. Luke Armstrong, Registrar of the University of Durham College of Medicine, Newcastle-on-Tyne: for the December examination, on or before Nov. 1st, 1877; for the June examination, on or before May 1st, 1878, together with the fee and the before-mentioned certificates.

UNIVERSITY OF EDINBURGH.

The session 1878–79 will be opened on October 29th.

Three medical degrees are conferred by the University of Edinburgh—namely, Bachelor of Medicine (M.B.), Master in Surgery (C.M.), and Doctor of Medicine (M.D.). The degree of Master in Surgery is not conferred on any person who does not also at the same time obtain the degree of Bachelor of Medicine. All candidates for these degrees must give evidence of having obtained a satisfactory general education.

1. The preliminary branches of extra-professional education are English, Latin, Arithmetic, the Elements of Mathematics, and the Elements of Mechanics; and the proficiency of students in these branches is ascertained by examination prior to the commencement of their medical study.

2. No candidate is admitted to a professional examination who has not passed a satisfactory examination on at least two of the following subjects (in addition to the subjects mentioned above):—Greek, French, German, Higher Mathe-

matics, Natural Philosophy, Logic, Moral Philosophy; and the examination on these latter subjects also takes place before the candidate has entered on his medical curriculum.

3. A degree in Arts (not being an honorary degree) in any one of the universities of England, Scotland, or Ireland, or in any foreign or colonial university specially recognised for this purpose by the University Court, exempts from all preliminary examination; and an examination in Arts by any corporate body, whose examination has been recognised as qualifying for entrance on medical study by resolution of the General Medical Council of the United Kingdom, provided the said examination by the said corporate body shall also be approved by the University Court, shall exempt, *pro tanto*, from preliminary examination in Arts, on the subjects comprised in the examination of the said corporate body.

4. No one is admitted to the degree of Bachelor of Medicine or Master in Surgery who has not been engaged in medical and surgical study for four years—the medical session of each year, or *annus medicus*, being constituted by at least two courses of not less than one hundred lectures each, or by one such course, and two courses of not less than fifty lectures each; with the exception of the clinical courses, in which lectures are to be given at least twice a week during the prescribed periods.

5. Every candidate for the degrees of M.B. and C.M. must give sufficient evidence by certificates—1. That he has studied each of the following departments of medical science—namely, Anatomy, Chemistry, Materia Medica, Institutes of Medicine or Physiology, Practice of Medicine, Surgery, Midwifery and the Diseases peculiar to Women and Children, and General Pathology, each during courses including not less than one hundred lectures; Practical Anatomy, a course of the same duration as those of not less than one hundred lectures; Practical Chemistry, three months; Practical Midwifery, three months at a midwifery hospital, or a certificate of attendance on six cases from a registered medical practitioner; Clinical Medicine, Clinical Surgery,[a] courses of the same duration as those of not less than one hundred lectures, or two courses of three months' lectures being given at least twice a week; Medical Jurisprudence, Botany, Natural History (including Zoology), during courses including not less than fifty lectures. 2. That he has attended, for at least two years, the medical and surgical practice of a general hospital which accommodates not fewer than eighty patients, and possesses a distinct staff of physicians and surgeons. 3. That he has been engaged, for at least three months, by apprenticeship or otherwise, in compounding and dispensing drugs at the laboratory of a hospital, dispensary, member of a surgical college or faculty, licentiate of the London or Dublin Society of Apothecaries, or a member of the Pharmaceutical Society of Great Britain. 4. That he has attended, for at least six months, by apprenticeship or otherwise, the out-practice of a hospital, or the practice of a dispensary, physician, surgeon, or member of the London or Dublin Society of Apothecaries.

6. The studies of candidates for the degrees of Bachelor of Medicine and Master in Surgery are subject to the following regulations:—1. One of the four years of medical and surgical study required by Section 4 must be in the University of Edinburgh. 2. Another of such four years of medical and surgical study must be either in the University of Edinburgh or in some other university entitled to give the degree of Doctor of Medicine. 3. Attendance during at least six winter months on the medical or surgical practice of a general hospital which accommodates at least eighty patients, and, during the same period, on a course of Practical Anatomy, may be reckoned as one of such four years, and to that extent shall be held equivalent to one year's attendance on courses of lectures as above prescribed. 4. One year's attendance on the lectures of teachers of medicine in the hospital schools of London, or in the school of the College of Surgeons in Dublin, or of such teachers of medicine in Edinburgh, or elsewhere, as shall from time to time be recognised by the University Court, may be reckoned as one of such four years, and to that extent shall be held as attendance on courses of lectures as above prescribed. 5. Candidates may, to the extent of four of the departments of medical study required by Section 5, Sub-section 1, attend in such year or years of their medical and surgical studies as may be most convenient to them, the lectures of the teachers of medicine specified in the foregoing Sub-section 4. 6. All candidates not students of the University, availing themselves of the permission to attend the lectures of extra-academical teachers in Edinburgh must, at the commencement of each year of such attendance, enrol their names in a book to be kept by the University for that purpose, paying a fee of the same amount as the matriculation fee paid by students of the University, and having, in respect of such payment, a right to the use of the library of the University. The fee for attendance on the lectures of an extra-academical teacher in Edinburgh, with a view to graduation, must be of the same amount as that exigible by medical professors in the University. No teacher is recognised who is at the same time a teacher of more than one of the prescribed branches of study, except in those cases where professors in the University are at liberty to teach two branches. It is not necessary for any teacher, attendance on whose lectures is now recognised for the purpose of graduation in the University, to obtain a new recognition from the University Court; and attendance on the lectures of every such teacher will continue to be recognised as heretofore. It is in the power of the University Court, if they shall see cause, at any time to withdraw or suspend the recognition of any teacher or teachers.

7. Every candidate must deliver, before the 31st day of March of the year in which he proposes to graduate, to the Dean of the Faculty of Medicine, a declaration, in his own handwriting, that he has completed his twenty-first year, or that he will have done so on or before the day of graduation, and that he will not be, on the day of graduation, under articles of apprenticeship to any surgeon or other master; together with a statement of his studies, as well in Literature and Philosophy as in Medicine, accompanied with proper certificates.

8. Each candidate is examined, both in writing and orally, on Chemistry, Botany, and Natural History; on Anatomy, Institutes of Medicine, Materia Medica (including Practical Pharmacy), and Pathology; on Surgery, Practice of Medicine, Midwifery, and Medical Jurisprudence; Clinically on Medicine and on Surgery in a hospital. The examinations on Anatomy, Chemistry, Institutes of Medicine, Botany, Natural History, Materia Medica, and Pathology are conducted, as far as possible, by demonstrations of objects placed before the candidates.

9. Students who profess themselves ready to submit to an examination on the first division of these subjects, at the end of their second year, may be admitted to examination at that time. Provided always that students who commence their medical studies in the summer session, and who profess themselves ready to submit to an examination on the first division of these subjects at the beginning of their second winter session may be admitted to examination at that time on condition that they produce certificates of attendance on at least two classes during each of two summer sessions and one winter session; and on the further condition that they shall not be admitted to a degree in Medicine unless their course of study, subsequent to the completion of the summer session in which they commence their medical studies, shall not be less than the minimum course of four years prescribed in Section 4 hereof.

10. Students who have passed their examination on the first division of these subjects, may be admitted to examination on the second division at the end of their third year.

11. The examination on the third and fourth divisions cannot take place until the candidate has completed his fourth annus medicus.

12. Candidates may, if they choose, be admitted to examination on the first two of these divisions at the end of their third year, or to the four examinations at the end of their fourth year.

13. If any candidate at these examinations be found unqualified, he cannot be again admitted to examination unless he has studied, during another year, two of the prescribed subjects, either in the University, or in some other school of medicine.

14. After the candidate has satisfied the medical examiners, the Dean will lay the proceedings before the Senatus Academicus, by whose authority the candidate will be admitted on the first day of August, or, if that day be Sunday, then on the following day, to the degree of M.B., or to the degrees of M.B. and of C.M.

15. The degree of Doctor of Medicine may be conferred on any candidate who has obtained the degree of Bachelor of Medicine, and who is of the age of twenty-four years, and

[a] The Medical Faculty recommend that medical students should not attend Clinical Surgery during their first six months' attendance on Clinical Medicine.

produced a certificate of having been engaged, subsequently to his having received the degree of M.B., for at least two years in attendance on a hospital, or in the military or naval medical services, or in medical and surgical practice; provided always that the degree of M.D. shall not be conferred on any person, unless he be a graduate in Arts of one of the universities of England, Scotland, or Ireland, or of such other universities as are above specified, or unless he shall, before or at the time of his obtaining the degree of M.B., or thereafter, have passed a satisfactory examination on *three* of the subjects mentioned in Section II. of the statutes relative to preliminary examination. Two of these must be Greek, and Logic or Moral Philosophy, and the third is to be one of the following subjects at the option of the candidate—namely, French, German, higher Mathematics, and Natural Philosophy, and provided also that the candidate for the degree of M.D. shall submit to the Medical Faculty a thesis, certified by him to have been composed by himself, and which shall be approved by the Faculty, on any branch of knowledge comprised in the professional examinations for the degree of M.B., which he may have made a subject of study after having received that degree. The candidate must lodge his thesis with the Dean on or before 30th April of the year in which he proposes to graduate. No thesis will be approved by the Medical Faculty which does not contain either the results of original observations in practical medicine, surgery, midwifery, or in some of the sciences embraced in the curriculum for the Bachelor's degree; or else a full digest and critical exposition of the opinions and researches of others on the subject selected by the candidate, accompanied by precise references to the publications quoted, so that due verification may be facilitated.

16. Persons who began their medical studies before the 4th of February, 1861, are entitled to graduate under the system in force before or after that date, according as they may comply with the regulations in force in the University before or after that date.

The Preliminary Examinations in General Education are held in the Upper Library Hall, and students matriculated for the academic year are admitted on presenting their matriculation tickets at the door. Students matriculated for the summer only and non-matriculated students pay a fee of 10*s.* each, and are admitted on showing their receipts. Those who pay the fee in March will be admitted to the examination in October without further payment. Payment in October does not exempt from payment in March. The academic year is reckoned from 1st of November to 1st of November. Examinations on the preliminary branches of extra-professional education will take place on the 8th, 9th, 10th, and 11th October, 1878; and on the 11th, 12th, 13th, and 14th March, 1879.

Total fees for M.B. £15 15*s.* Total fees and stamp for graduating as M.D. only, by regulations for students commencing before February, 1861, £25. The fees for examination must be paid at the secretary's office ten days before the dates thereof, and the fees for the degrees of C.M. and M.D., and the stamp-duty for the latter, must be paid on or before the 15th day of July in the year of graduation. In the event of the candidate not passing any one of the professional examinations, the fee is not returned; but he may appear at one subsequent examination without paying an extra fee, and at any future examination on paying one-half the fee.

UNIVERSITY OF GLASGOW.

Three degrees in Medicine are granted—viz., Bachelor of Medicine, Master in Surgery, and Doctor of Medicine. The curricula of study and the examinations for the several degrees conferred are nearly the same as in the University of Edinburgh. The annual term for conferring medical and surgical degrees is the 1st of August. The Preliminary Examinations of medical students in branches of general education take place on the 9th of October, 1878, and on the 27th of March, 1879.

The fees for the degrees are the same as in the University of Edinburgh.

The regulations under which the above degrees are granted and the notices of the subjects of examination may be obtained by application to the registrar of the University.

Bursaries tenable by Medical Students.—The Brisbane Bursary, of £50 yearly, held for four years by a student of medicine who is a Master of Arts. The Walton Bursary, of £36 yearly, held by a medical student (a native of England being preferred) for four years. The Logan Bursary, of £16 yearly, tenable by a medical student for four years. Two Rainy Bursaries, value £20 per annum each, open to medical students who have just completed the second year of professional study, and tenable for two years. The Armagh Bursaries, three in number, amounting each to £25 yearly, for three years, open to Students of Divinity, Law, and Medicine, who have taken the degree of M.A. The Macfarlane Bursary, value £40 per annum, and tenable for three years, open to students who have attended the first session of their professional study in the University of Glasgow, and who have passed in all the seven subjects of the Preliminary Examination for M.B. The Marshall Bursary, value £17 per annum, and tenable for four years, open to students entering the Medical Faculty, and awarded by competition on the subjects of the Preliminary Examination. The Lorimer Bursary, value £50 per annum, tenable by a medical student for three years.

UNIVERSITY OF ABERDEEN.

The curricula for the several degrees conferred are nearly the same as in the University of Edinburgh.

Professional Examinations will be held twice in each year—namely, in April and July, directly after the close of the winter and summer sessions.

The fees for graduation are the same as in the University of Edinburgh. Matriculation fee, including all dues, for the winter and summer sessions, £1; summer session alone, 10*s.*

Candidates who commenced their medical studies before November, 1861, are entitled to appear for examination for the degree of M.D. after four years' study, one of which must have been in the University of Aberdeen.

Besides the Royal Infirmary, students have the opportunity of attending the following institutions:—General Dispensary, and Lying-in and Vaccine Institutions, daily; Royal Lunatic Asylum; Eye Institution, in which is given clinical instruction on the Diseases of the Eye, and on the Application of the Ophthalmoscope for their diagnosis.

Application for further information should be addressed to Professor Brazier, Secretary to the Medical Faculty.

UNIVERSITY OF ST. ANDREWS.

Three degrees in Medicine are granted—namely, Bachelor of Medicine (M.B.), Master in Surgery (C.M.), and Doctor of Medicine (M.D.) The curricula for these degrees, and the regulations under which they are conferred, differ from those of the University of Edinburgh only in the particulars noticed below.

The degree of *Doctor of Medicine* may be conferred by the University of St. Andrews on any registered medical practitioner above the age of forty years whose professional position and experience are such as, in the estimation of the University, to entitle him to that degree, and who shall, on examination, satisfy the medical examiners of the sufficiency of his professional knowledge; provided always that degrees will not be conferred, under this section, to a greater number than ten in any one year. The examinations are held yearly, towards the end of April. Candidates must lodge with the Dean of the Medical Faculty the following certificates, along with application for admission to examination:—1. A certificate of age, being a baptismal certificate or an affidavit of age. 2. Holograph certificates from at least three medical men of acknowledged reputation in the medical profession or in the medical schools, recommending the candidate to the Senatus for the degree, and testifying to his professional skill and position. As only ten can graduate yearly, candidates will be selected whose service and certificates seem to the Medical Faculty to present the highest professional claims, and where these seem equal preference will be given to age and priority of application. 3. Candidates, when notified for examination, shall remit a portion of the graduation fee (viz., £15 15*s.*) This sum shall be forfeited should the candidate fail to appear, or to graduate, at the time appointed. 4. A satisfactory examination, written and *viva voce*, must be passed in the following departments—viz., Materia Medica and General Therapeutics, Medical Jurisprudence, Practice of Medicine and Pathology, Surgery, Midwifery and Diseases of Women and Children.

No one will be received as a candidate for the degree of *Bachelor of Medicine* or *Master in Surgery* unless two years at least of his four years of medical and surgical study shall have been in one or more of the following universities or

colleges—viz., the Universities of St. Andrews, Glasgow, Aberdeen, Edinburgh, Oxford, and Cambridge; Trinity College, Dublin; Queen's College, Belfast; Queen's College, Cork; and Queen's College, Galway.

Subject always to the condition here specified, the studies for candidates for the degrees of Bachelor of Medicine and Master in Surgery will be under the following regulations: The remaining years of medical and surgical study may be either in one or more of the universities and colleges above specified, or in the hospital schools of London, or in the school of the College of Surgeons of Dublin, or under such private teachers of medicine as may from time to time receive recognition from the University Court. Attendance during at least six winter months on the medical or surgical practice of a general hospital which accommodates at least eighty patients, and during the same period on a course of Practical Anatomy, may be reckoned as one of such remaining years. Attendance on the lectures of any private teacher in Edinburgh, Glasgow, or Aberdeen, will not be reckoned for graduation in St. Andrews, if the fee for such lectures be of less amount than is charged for the like course of lectures in the University of Edinburgh, of Glasgow, or of Aberdeen, according as the teacher lectures in those places respectively.

Every candidate for examination for the degrees of M.B. and C.M. is required to lodge a declaration of age, a statement of his course of study, his inaugural dissertation, and all his certificates, with the Dean of the Medical Faculty, on or before the 25th of March in each year.

No candidate offering himself for examination on the first two divisions of the subjects specified in Clause 12 of the regulations will be considered to have passed in the second if he fails in the first; and no candidate offering himself for examination on the three divisions shall be considered to have passed in the third if he fails either in the first or second division.

Every candjdate who fails to pass in any of the divisions will, for a first failure, in any and each of the divisions, forfeit the sum of £2 2*s.*, and £1 1*s.* for every subsequent failure in each.

UNIVERSITY OF DUBLIN (TRINITY COLLEGE).

Matriculation.—All students in the School of Physic intending to practise Physic must be matriculated, for which a fee of 5*s.* is payable. No student can be admitted for the winter course after Nov. 25th.

Previous Medical Examination.—Candidates for degrees and licences in Medicine and Surgery are required to pass a previous examination in Physics, Chemistry, Botany, Materia Medica and Pharmacy, and Descriptive Anatomy, previous to their degree examination.

Bachelor in Medicine.—A candidate for the degree of Bachelor in Medicine must be a graduate in Arts, and may obtain the degree of Bachelor in Medicine at the same commencement as that at which he receives his degree of B.A., or at any subsequent commencement. The medical education of a Bachelor in Medicine is of four years' duration, and comprises attendance on a single course of each of the following lectures:—Anatomy, Practical Anatomy, Surgery, Chemistry, Materia Medica and Pharmacy, Institutes of Medicine, Practice of Medicine, Midwifery, Botany, Medical Jurisprudence, Heat, Electricity, Magnetism, Comparative Anatomy. Three courses of nine months' attendance on the clinical lectures of Sir Patrick Dun's or other metropolitan hospital recognised by the Board of Trinity College. Six months' instruction in Practical Midwifery, including Clinical Lectures. A certificate of personal attendance on Fever cases, with names and dates of cases. Six months' dissections are required. Three months' laboratory instruction in Chemistry is required. Any of the above-named courses may be attended at any medical school in Dublin recognised by the Provost and senior Fellows. The fee for the *Liceat ad Examinandum* is £5; for the M.B. degree £11.

Doctor in Medicine.—A Doctor in Medicine must be M.B. of at least three years' standing, or have been qualified to take the degree of M.B. for three years, and must perform exercises for the degree before the Regius Professor of Physic, in accordance with the rules and statutes of the University. Total amount of fees for this degree, £13.

Bachelor in Surgery.—A Bachelor in Surgery must be a Bachelor in Arts, and have spent four years in the study of Surgery and Anatomy. He must also pass a public examination in the Hall before the Professors of the School of Physic, having previously completed the prescribed curriculum of study.[6] Candidates are required to perform surgical operations on the dead subject. Candidates for the degree of Bachelor in Surgery, who have already passed the examination for the degree of Bachelor in Medicine, will be examined in Anatomy and Surgery only. Fee for the *Liceat ad Examinandum*, £5; for the degree of Bachelor in Surgery, £11.

Master in Surgery.[7]—A Master in Surgery must be a Bachelor in Surgery of three years' standing, or have been qualified to take the degree of Bachelor in Surgery for three years; and must read two theses publicly before the Regius Professor of Surgery, or undergo an examination before the Regius Professor, according to regulations to be approved by the Provost and senior Fellows. Fee for the degree of Master in Surgery, £11.

University Licences.—Candidates for the Licences in Medicine or Surgery must be matriculated in Medicine, and must have completed two years in Arts and four years in medical studies.

Licentiate in Medicine.—The medical course and examination necessary for the Licence in Medicine are the same as for the degree of M.B. A Licentiate in Medicine, on completing his course in Arts, and proceeding to the degree of B.A., may become a Bachelor in Medicine, on paying the degree fees, without further examination in Medicine. Fee for the *Liceat ad Examinandum*, £5; for the Licence in Medicine, £5.

Licentiate in Surgery.—The surgical course and examination necessary for the Licence in Surgery are the same as for the degree of Bachelor in Surgery. Fee for the *Liceat ad Examinandum*, £5; for the Licence in Surgery, £5.

Medical Scholarships.—Two Medical Scholarships will be given annually, tenable for two years, with a salary of £20 per annum, on the condition of the successful candidates proceeding regularly for two years with the medical course in the University.

Qualification in State Medicine.—Doctors in Medicine of Dublin, Oxford, or Cambridge, who wish to obtain from the University a Certificate of Qualification in State Medicine, can do so on passing an examination in a limited course of the following subjects:—1. Law, comprehending sanitary legislation, and the laws relating to the conduct and duties of medical men. 2. Engineering in its sanitary aspects. 3. Pathology, including the laws of epidemics, vaccination, insanity, &c. 4. Vital and sanitary statistics. 5. Chemistry in relation to air, water, gaseous poisons, deodorisation, and disinfection. 6. Meteorology. 7. Medical Jurisprudence.

The total cost of the education and first degrees in Medicine and Surgery is as follows, in addition to the fees for education in Arts and B.A. degree (£83 4*s.*); Medical and Surgical Lectures, £52 15*s.*; Hospitals, £33 12*s.*; Medical and Surgical Examinations and Degrees, £22.

THE QUEEN'S UNIVERSITY IN IRELAND.

Granting the degrees of *Doctor in Medicine* and *Master in Surgery*, and diplomas in Midwifery, includes three Colleges—the Queen's Colleges of Belfast, Cork, and Galway—each of which possesses a Faculty of Medicine. The curriculum of medical study extends over a period of four years, and is divided into two periods of two years each. The first period comprises attendance on Chemistry, Natural History, Anatomy and Physiology, Practical Anatomy, Materia Medica and Pharmacy. The second period comprises attendance on Anatomy and Physiology, Practical Anatomy, Theory and Practice of Surgery, Midwifery and Diseases of Women and Children, Theory and Practice of Medicine, and Medical Jurisprudence. At least two of the above courses of lectures must be attended in some one of the Queen's Colleges; the remainder may be taken, at the option of the candidate, in any university, college, or school recognised by the Senate of the Queen's University. Candidates are required to have also attended, in one of the Colleges of the Queen's University, lectures on Experimental Physics and on one Modern Language, and to have passed the Matriculation Examination. They are further required to attend,

[6] Students in the School of Physic who matriculated before June 22nd, 1872, may obtain the degree of Master in Surgery according to the regulations in force previous to the creation of the degree of Bachelor in Surgery.

[7] Masters in Surgery must be of the standing of Masters of Arts.

during the first period, Practical Chemistry in a recognised laboratory, and the practice during six months of a recognised medico-chirurgical hospital, containing at least sixty beds, together with the clinical lectures delivered therein; and to attend, during the second period, a recognised midwifery hospital, with the clinical lectures therein delivered, for a period of three months; or a midwifery dispensary for the same period; or ten cases of labour, under the superintendence of the medical officer of any hospital or dispensary where cases of labour are treated; and eighteen months' practice of a recognised medico-chirurgical hospital containing at least sixty beds, and in which clinical instruction is delivered. There are three University examinations for the degree of Doctor in Medicine. The degree of Master in Surgery and the diploma in Midwifery are only conferred upon candidates who already hold the degree of Doctor in Medicine, and who have also passed a special examination in surgery or midwifery. The University Examinations are held twice in each year—in June and September. Candidates who commence their medical studies elsewhere are admitted to portions of the First and Second University Examinations before proceeding to College. Further information will be found in the "Queen's University Calendar," or may be obtained by application to the Secretary, Queen's University, Dublin Castle.

ROYAL COLLEGE OF PHYSICIANS OF LONDON.

The licence of this College is a qualification to practise Medicine, Surgery, and Midwifery, and is recognised by the Poor-law Board as a qualification in Surgery as well as in Medicine.

Licentiates.—Every candidate for the College licence (except when otherwise provided by the bye-laws) is required to produce satisfactory evidence to the following effect:—Of having attained the age of twenty-one years. Of moral character. Of having passed, before the commencement of professional study, an examination in the subjects of general education recognised by the College. Of having been registered as a medical student in the manner prescribed by the General Medical Council. "After October, 1870, every candidate (not exempted from registration) is required to have been registered at least four years previously." Of having been engaged in professional studies during four years, of which at least three winter sessions and two summer sessions shall have been passed at a recognised medical school or schools, and one winter session and two summer sessions in one or other of the following ways:—1. Attending the practice of a hospital or other institution recognised by the College for that purpose. 2. Receiving instruction as the pupil of a legally qualified practitioner holding any public appointment which affords opportunities, satisfactory to the examiners, of imparting a practical knowledge of Medicine, Surgery, or Midwifery. 3. Attending lectures on any of the required subjects of professional study at a recognised place of instruction. Professional studies commenced *before* the candidate shall have passed an examination in the subjects of general education will not be recognised by the College. Of having attended, during three winter sessions and two summer sessions, the medical and surgical practice at a recognised hospital or hospitals;[8] of having discharged the duties of clinical clerk at a recognised hospital for a period of not less than three months; of having performed the duties of dresser at a recognised hospital for a period of not less than three months; and of having been engaged during six months in the clinical study of diseases peculiar to women. Of having studied the following subjects:—Anatomy (with Dissections), during two winter sessions;[9] Physiology, during two winter sessions; Chemistry, during six months; Practical Chemistry, during three months; Materia Medica, during three months; Practical Pharmacy, during three months; Botany, during three months; Morbid Anatomy, during six months; Principles and Practice of Medicine, during two winter sessions; Principles and Practice of Surgery, during two winter sessions; Clinical Medicine, during two winter sessions and two summer sessions; Clinical Surgery, during two winter sessions and two summer sessions; Midwifery and the Diseases peculiar to Women, during three months; Forensic Medicine, during three months. Of having passed the professional examinations.

Any candidate who shall produce satisfactory evidence of having passed an examination on Anatomy and Physiology, conducted by any of the bodies named in Schedule (A) to the Medical Act, and recognised by the College as requiring a course of study and an examination satisfactory to the College, shall be exempt from re-examination on the subjects of the primary examination. Any candidate who shall have obtained a degree in Medicine at a University recognised by the College, after a course of study and an examination satisfactory to the College, shall be exempt from re-examination on the subjects of the primary examination. Any candidate who shall have obtained a degree in Surgery at a University in the United Kingdom, after a course of study and an examination satisfactory to the College, shall be exempt from re-examination on Surgical Anatomy, and on the Principles and Practice of Surgery. Any candidate who shall have passed the examination on Surgery conducted by the Royal College of Surgeons of England, or the Royal College of Surgeons of Edinburgh, or the Royal College of Surgeons in Ireland, after a course of study and an examination satisfactory to the College, shall be exempt from re-examination on Surgical Anatomy, and on the Principles and Practice of Surgery. Any candidate for the College licence, who shall have obtained a degree in Medicine or Surgery at a British, colonial, or foreign university, recognised by the College, after a course of study and an examination satisfactory to the College, shall be exempt from re-examination on such subjects as shall in each case be considered unnecessary. Any candidate, being a "registered medical practitioner," whose qualification or qualifications shall have been obtained before the first day of January, 1861, having been with the consent of the College admitted a candidate for the licence, will be examined on the Principles and Practice of Medicine, Surgery, and Midwifery; but he will be exempted from such other parts of the professional examinations as his qualifications may seem to the examiners to render in his case unnecessary. Any candidate who shall produce satisfactory evidence of having passed an examination on Chemistry and Materia Medica, required for a degree in Medicine at a university in the United Kingdom, in India, or in a British colony, will be exempted from re-examination on those subjects. Any candidate who shall have obtained a qualification which entitles him to practise Medicine or Surgery in the country where such qualification has been conferred, after a course of study and an examination equivalent to those required by the regulations of the College, shall, on production of satisfactory evidence as to age, moral character, and proficiency in vaccination, be admissible to the Pass Examination, and shall be exempt from re-examination on such subjects as shall in each case be considered by the Censors' Board to be unnecessary.

Examinations for the licence will take place as follows:—First Examination: October 7th and December 2nd, 1878; February 3rd, April 7th, July 7th, October 6th, and December 1st, 1879. Second Examination: October 14th and December 9th, 1878; February 10th, April 14th, July 14th, October 13th, and December 8th, 1879.

Members.—The members of the College, present and future, shall be alone eligible to the fellowship. Every candidate (except such as are admissible under special provisions relating to practitioners) must produce proof of his having been engaged in professional studies during a period of five years, of which four years at least shall have been passed at a medical school or schools recognised by the College. Every candidate shall produce evidence, satisfactory to the Censors' Board, of his having studied the following subjects: Anatomy (with Dissections), during two winter sessions; Physiology, two winter sessions; Chemistry, six months; Practical Chemistry, three months; Materia Medica, three months; Practical Pharmacy, three months; Botany, three months; Morbid Anatomy, six months; Principles and Practice of Medicine, two winter sessions; Principles and Practice of Surgery, two winter sessions; Clinical Medicine, three winter and three summer sessions; Clinical Surgery, two winter and two summer sessions; Midwifery and the Diseases peculiar to Women, three months; Forensic Medicine, three months. He shall also give satisfactory proof of having attended diligently during three winter and three summer sessions the medical practice, and during three

[8] A three months' course of clinical instruction in the wards of a recognised lunatic hospital or asylum may be substituted for the same period of attendance in the medical wards of a general hospital.

[9] The winter session comprises a period of six months, and the summer session a period of three months.

winter and two summer sessions the surgical practice, of a hospital containing at least a hundred beds; of having been engaged during six months in the clinical study of Diseases peculiar to Women; and of having served the office of clinical clerk in the medical wards during at least six months. Every candidate who has prosecuted his studies abroad, whether in part or to the full extent required by the preceding bye-law, shall, nevertheless, bring proof of his having attended during at least twelve months the medical practice of a hospital in the United Kingdom containing at least a hundred beds. If the Censors' Board doubt the sufficiency of the certificates produced by any candidate, or his fitness in any respect for admission to examination, they may submit the case to a general meeting of the fellows. No candidate shall be admitted to examination who is engaged in trade; or who dispenses medicine, or makes any engagement with a chemist, or any other person, for the supply of medicines; or who practises medicine or surgery, in partnership, by deed or otherwise, so long as that partnership continues. No candidate shall be admitted to examination who refuses to make known, when required by the president and censors, the nature and composition of any remedy he uses. Every candidate must give proof of his acquirements by written answers to questions placed before him, and shall be examined *viva voce* at three separate examinations, and shall be approved by the president and censors, or by the major part of them. Any candidate who has already obtained the degree of Doctor or Bachelor of Medicine at a university in the United Kingdom, wherein the courses of study, and the examinations to be undergone by the students previously to graduation, shall have been adjudged by the Censors' Board to be entirely satisfactory, shall be exempt (if the censors shall think fit) from all or any parts of the examinations hereinbefore described, except such as relate to the Third or Pass examination; the nature and extent of which examination shall, in the case of each candidate, be determined by the Censors' Board. Every candidate for the membership will, however, be required to translate into English a passage from a Latin author, and he will have the opportunity of showing a knowledge of Greek or of one or more of the modern European languages. Any candidate who shall produce satisfactory evidence of having passed an examination on Anatomy and Physiology, conducted by any of the bodies named in Schedule (A) to the Medical Act, and recognised by the College as requiring a course of study and an examination satisfactory to the College, will be exempt from re-examination on the subjects of the Primary Examinations. Any candidate who shall have obtained a degree in Surgery, at a university in the United Kingdom, after a course of study and an examination satisfactory to the College, will be exempt from re-examination on Surgical Anatomy and the Principles and Practice of Surgery. Any candidate who shall have passed the examination on Surgery conducted by the Royal College of Surgeons of England, or the Royal College of Surgeons of Edinburgh, or the Royal College of Surgeons in Ireland, after a course of study and an examination satisfactory to the College, will be exempt from re-examination on Surgical Anatomy and on the Principles and Practice of Surgery. Every candidate approved by the Censors' Board shall be proposed at the next general meeting of fellows, as qualified to become a member of the College; and if the majority of the fellows present shall consent, he shall, on complying with the regulations prescribed by the bye-laws, be admitted a member of the College.

The following additional regulations for the membership came into force on Jan. 30th, 1878:—1. Any candidate who shall produce satisfactory evidence of having passed an examination on Chemistry and Materia Medica, required for a degree in medicine at a university in the United Kingdom, in India, or in a British colony, will be exempted from re-examination on those subjects. 2. Any candidate who has already obtained the degree of Doctor or Bachelor of Medicine at a university in the United Kingdom, in India, or in a a British colony, or who shall have obtained a qualification entitling him to practise Medicine or Surgery in the country where such qualification has been conferred, wherein the courses of study and the examinations to be undergone previously to graduation shall have been adjudged by the Censors' Board to be satisfactory, shall be exempt (if the censors shall think fit) from all or any parts of the examinations hereinbefore described, except such as relate to the Third or Pass Examination. The nature and extent of this examination shall, in the case of each candidate, be determined by the Censors' Board.

Examinations for the Membership will take place as follows:—Third or Pass Examination, October 24th, 1878, and January 23rd, April 17th, July 24th, and October 23rd, 1879. The First and Second Examinations are generally held at the commencement of the same months.

ROYAL COLLEGE OF SURGEONS OF ENGLAND.

REGULATIONS RESPECTING THE EDUCATION AND EXAMINATION OF CANDIDATES FOR THE DIPLOMA OF MEMBER.

Preliminary General Education and Examination.—Candidates who commenced their professional education on or after 1st January, 1861, will be required to produce one or other of the certificates of proficiency granted by the educational bodies specified in the recommendations of the General Medical Council. Candidates who shall not be able to produce one or other of those certificates will be required to pass an examination[10] in English, Classics, and Mathematics, conducted by the Board of Examiners of the Royal College of Preceptors, under the direction and supervision of this College.

N.B.—Each candidate, who has not at a previous examination paid the amount, is required to pay a fee of £2 on the morning of the first day of the examination prior to his admission thereto. Examinations are held in March and September. Particulars respecting the examination will be duly advertised in the journals. Candidates are required to apply for the prescribed form of application a month before the date of the examination, and to send the same to the College not less than three weeks before its commencement.

Professional Education.—Professional studies prior to the date at which the candidate shall have passed an examination in general knowledge, in conformity with the preceding regulation, are not recognised.

The following will be considered as the commencement of professional education:—Attendance on the practice of a hospital or other public institution recognised by this College for that purpose. Instruction as the pupil of a legally qualified surgeon, holding the appointment of surgeon to a hospital, general dispensary, or union workhouse, or where such opportunities of practical instruction are afforded as shall be satisfactory to the Council. Attendance on lectures on Anatomy, Physiology, or Chemistry, by lecturers recognised by this College.

Candidates will be required to produce the following other certificates:—1. Of being twenty-one years of age. 2. Of having been engaged subsequently to the date of passing the Preliminary Examination, during four years, or during a period extending over not less than four winter and four summer sessions, in the acquirement of professional knowledge. 3. Of having attended lectures on Anatomy during two winter sessions. 4. Of having performed Dissections during not less than two winter sessions. 5. Of having attended lectures on General Anatomy and Physiology during one winter session. 6. Of having attended a practical course of General Anatomy and Physiology during another winter or a summer session, consisting of not less than thirty meetings of the class. 7. Of having attended lectures on Surgery during one winter session. 8. Of having attended a course of Practical Surgery during a period occupying not less than six months prior or subsequent to the course required by the preceding clause (7). 9. Of having attended one course of lectures on each of the following subjects—namely, Chemistry, Materia Medica, Medicine, Forensic Medicine, Midwifery (with practical instruction, and a certificate of having personally conducted not less than ten labours), Pathological Anatomy during not less than three months. 10. Of having studied Practical Pharmacy during three months. 11. Of having attended a three months' course of Practical Chemistry (with manipulations) in its application to medical study. 12. Of instruction and proficiency in the practice of Vaccination. 13. Of having attended at a recognised hospital or hospitals the Practice of Surgery during three winter and two summer sessions. 14. Of having been individually engaged, at least twice in each week, in the observation and examination of patients at a recognised hospital or hospitals, under the direction of a recognised teacher,

[10] The subjects of this examination during the years 1878-79 may be obtained by application at the College.

during not less than three months. 15. Of having, subsequently to the first winter session of attendance on Surgical Hospital Practice, attended, at a recognised hospital or hospitals, Clinical Lectures on Surgery, during two winter and two summer sessions. 16. Of having been a Dresser at a recognised hospital, or of having, subsequently to the completion of one year's professional education, taken charge of patients under the superintendence of a surgeon during not less than six months, at a hospital, general dispensary, or parochial or union infirmary recognised for this purpose, or in such other similar manner as, in the opinion of the Council, shall afford sufficient opportunity for the acquirement of Practical Surgery. 17. Of having attended, during the whole period of attendance on Surgical Hospital Practice (see Clause 13) demonstrations in the post-mortem room of a recognised hospital. 18. Of having attended at a recognised hospital or hospitals, the Practice of Medicine, and Clinical Lectures on Medicine, during one winter and one summer session.

Blank forms of the required certificates may be obtained on application to the Secretary, and all necessary certificates will be retained at the College.

Certificates will not be received on more than one branch of science from one and the same lecturer; but Anatomy and Dissections will be considered as one branch of science.

Certificates will not be recognised from any hospital in the United Kingdom unless the surgeons thereto be members of one of the legally constituted Colleges of Surgeons in the United Kingdom; nor from any School of Anatomy and Physiology or Midwifery, unless the teachers in such school be members of some legally constituted College of Physicians or Surgeons in the United Kingdom; nor from any School of Surgery, unless the teachers in such school be members of one of the legally constituted Colleges of Surgeons in the United Kingdom.

No metropolitan hospital will be recognised by this College which contains less than 150, and no provincial or colonial hospital which contains less than 100 patients.

Certificates of attendance upon the practice of a recognised provincial or colonial hospital unconnected with, or not in convenient proximity to, a recognised medical school, will not be received for more than one winter and one summer session of the hospital attendance required by the regulations of this College; and in such cases clinical lectures will not be necessary, but a certificate of having acted as dresser for a period of at least six months will be required.

Those candidates who shall have pursued the whole of their studies in Scotland or Ireland will be admitted to examination upon the production of the several certificates required respectively by the College of Surgeons of Edinburgh, the Faculty of Physicians and Surgeons of Glasgow, and the College of Surgeons in Ireland, from candidates for their diploma, together with a certificate of instruction and proficiency in the practice of Vaccination, and satisfactory evidence of having been occupied, subsequently to the date of passing the Preliminary Examination, at least four entire years in the acquirement of professional knowledge; and, in the case of candidates who shall have pursued the whole of their studies at recognised foreign or colonial universities, upon the production of the several certificates required for their degree by the authorities of such universities, together with a certificate of instruction and proficiency in the practice of Vaccination, and satisfactory evidence of having been occupied, subsequently to the date of passing the Preliminary Examination, at least four entire years in the acquirement of professional knowledge.

Members or licentiates of any legally-constituted College of Surgeons in the United Kingdom, and graduates in Surgery of any university recognised for this purpose by this College, will be admitted to examination on producing their diploma, licence, or degree, together with proof of being twenty-one years of age, a certificate of instruction and proficiency in the practice of Vaccination, and satisfactory evidence of having been occupied, subsequently to the date of passing the Preliminary Examination, at least four years in the acquirement of professional knowledge.

Graduates in Medicine of any legally-constituted college or university, recognised for this purpose by this College, will be admitted to examination on adducing, together with their diploma or degree, proof of being twenty-one years of age, a certificate of instruction and proficiency in the practice of Vaccination, and satisfactory evidence of having been occupied, subsequently to the date of passing the Preliminary Examination, at least four entire years in the acquirement of professional knowledge.

Professional Examination.—This examination is divided into two parts. The First or Primary Examination, on Anatomy and Physiology, is partly written and partly demonstrative on the recently dissected subject, and on prepared parts of the human body. The Second or Pass Examination, on Surgical Anatomy and the Principles and Practice of Surgery and Medicine,[11] is partly written, partly oral, and partly on the practical use of surgical apparatus and the practical examination of patients. The Primary Examinations are held in the months of January, April, May, July, and November, and the Pass Examinations generally in the ensuing week respectively. Candidates will not be admitted to the Primary Examination until after the termination of the second winter session of their attendance at a recognised school or schools, nor to the Pass or Surgical Examination until after the termination of the fourth year of their professional education. The fee of five guineas, paid prior to the Primary Examination, and allowed on the whole fee of £22 payable for the diploma, is retained; and after any two consecutive failures at the Primary Examination the candidate is required to pay an *additional* fee of five guineas prior to being again admitted to that examination, which *additional* fee is also retained. Five guineas, part of the sums of £16 15*s.*, the balance of the whole fee due for the diploma, and paid prior to the Pass Examination, is retained; and after any two consecutive failures at the Pass Examination the candidate is required to pay an *additional* fee of £5 5*s.* prior to being again admitted to the Pass Examination, which *additional* fee is also retained. A candidate having entered his name for either the Primary or Pass Examination, who shall fail to attend the meeting of the Court for which he shall have received a card, will not be allowed to present himself for examination within the period of three months from the date at which he shall have so failed to attend. A candidate referred on the Primary Examination is required, prior to his admission to re-examination, to produce a certificate of the performance of dissections during not less than three months, subsequently to the date of his reference. A candidate referred on the Pass Examination is required, prior to his admission to re-examination, to produce a certificate of at least six months' further attendance on the surgical practice of a recognised hospital, together with lectures on Clinical Surgery, subsequently to the date of his reference.

The required certificates, whether for the Primary or Pass Examination, must be forwarded through the post not less than ten clear days prior to the date of each examination; except in the case of a referred candidate whose term of additional study will not expire until the date of the examination, in which case a written application must be sent by him in lieu of the certificates, such certificates to be produced the day before the examination.

For the diploma of Fellow, the regulations as to the *Preliminary Examination* are very nearly the same as for the Membership.

The College of Surgeons issued a notice some time ago that the annual registration of students had been abolished. There will not therefore be any registration in October next.

ROYAL COLLEGE OF PHYSICIANS, EDINBURGH.

The Licence.—No one can obtain the licence of the College until he has completed the age of twenty-one years.

Every applicant for the licence must produce a certificate that he has studied Vaccination under a recognised teacher.

The Preliminary Examination in General Education prescribed by the General Medical Council must have been passed by each applicant, and his name inscribed in the Register of Medical Students, previous to the commencement of his medical studies. Masters and Bachelors of Arts of any British or foreign university, whose course of

[11] Candidates can claim exemption from examination in Medicine under the following conditions—viz.: 1. The production by the candidate of a degree, diploma, or licence in Medicine entitling him to register under the Medical Act of 1858; or a degree, diploma, or licence in Medicine of a colonial or foreign university approved by the Council of the College. 2. A declaration by the candidate, prior to his admission to the Final Examination for Membership or Fellowship, that it is his intention to obtain either of the medical qualifications mentioned in the foregoing paragraph, in which case the diploma of the College will not be issued to him until he shall produce either of the said medical qualification or proof of having passed the several examinations entitling him to receive the same.

study may from time to time be approved by the College, will be exempted from the Preliminary Examination; also those who have passed the examination of the national educational bodies, or of any recognised licensing board.

The Professional Examination will be divided into two parts, according to the following arrangement of subjects:—1. Anatomy, Physiology, Chemistry. 2. Materia Medica and Pharmacy, Pathology and Pathological Anatomy, Practice of Medicine, Surgery, Midwifery, Medical Jurisprudence, Clinical Medicine. No candidate will be admitted to the first examination until the end of his second winter session, or to the second until he has completed four years of professional study. The examinations will be partly oral, partly in writing.

Candidates for the licence of the College who have passed the First Professional Examination before a qualifying body (provided it be as extensive as that required by this College) will be at once admitted to the second part of the examination.

Meetings for the examination of candidates who already possess a qualification from a recognised licensing body will be held on the first Wednesday of every month (except September and October), and, if necessary, on the following days. Candidates are required to communicate with the secretary of the College not less than eight days before the date of the examination at which they propose to appear.

No candidate is admissible to examination who has been rejected by any licensing board within three months previous to his examination.

The fee payable by a licentiate is £15 15*s*. In the event of a candidate being unsuccessful at his examination, the sum of £4 4*s*. will be retained to defray expenses.

Candidates may be admitted to special examination, on other days than those appointed above, on bringing forward reasons satisfactory to the Council, and on paying an extra fee of £5 5*s*. Should the candidate be unsuccessful, the sum of £11 11*s*. will be returned to him.

The Membership.—Any licentiate of a College of Physicians, or graduate of a British or Irish University, with whose knowledge of medical and general science the College may be satisfied, may be admitted a member of the College provided he shall have attained the age of twenty-four years.

The Fellowship.—No one can be elected a fellow of the College until he has been at least one year a member thereof, and has attained the age of twenty-five years.

The fee to be paid by a member is £31 10*s*. When a licentiate is raised to the rank of a member, he pays £21. When a member is raised to the rank of a fellow, the fee is £31 10*s*., exclusive of stamp duty, which amounts to £25. All candidates for fellowship or membership must lodge their fees, and the amount of stamp duty payable at the time to Government, with the treasurer, previously to presenting their petitions.

Qualification in Public Health.—The College now confers certificates of competency in Public Health. Examinations are held in April and October. Fee for certificate, £10 10*s*.

ROYAL COLLEGE OF SURGEONS, EDINBURGH.

Every candidate for a surgical diploma must have followed his course of study in a university, or in an established school of medicine, or in a provincial school specially recognised by the College of Surgeons of that division of the United Kingdom in which it is situate.

Preliminary Examination.—All students who intend becoming candidates for the diploma of the College must have passed the complete examination in general education as prescribed by the General Medical Council, and have had their names inscribed in the Register of Medical Students at the commencement of their professional studies. Examinations will be held on Oct. 14th and 15th, 1878; April 15th and 16th, July 12th and 14th, 1879. Testimonials of proficiency granted by educational bodies recognised by the Medical Council exempt students from the Preliminary Examination.

Professional Education.—Candidates commencing professional study after Sept. 16th, 1866, must have been engaged during four years, after the examination in general education, in professional study, which shall include not less than four winter sessions', or three winter and two summer sessions' attendance at a recognised medical school.

Professional Examination.—Candidates are subjected to two Professional Examinations, conducted at separate sittings, partly in writing and partly orally.

The First Examination embraces Anatomy, Physiology, and Chemistry. Examinations will be held Oct. 22nd, 1878; Jan. 28th, April 1st and 22nd, and July 22nd, 1879.

Candidates who desire to pass the First Professional Examination must apply to the Secretary on or before the Saturday preceding the day of examination, and must produce tickets and certificates of attendance in regard to all those courses of study which have reference to the subjects of that examination. They must also produce evidence of having passed the Preliminary Examination. The sum of £6 6*s*. must be paid to the treasurer of the College for this examination not later than 9 A.M. of the day preceding it. This sum will be considered as paid to account of the entire fee of £15 15*s*. payable for the diploma.

The Second Examination embraces Surgery and Surgical Anatomy; also Medicine, Midwifery, Materia Medica, and Medical Jurisprudence; and does not take place before the termination of the winter session of the last year of study; in the case of candidates who began their course of study after 16th September, 1866, it will not take place till four years after the examination in general education.

Application for examination must be made to the secretary not later than the Tuesday previous to the day of the First Examination.

Every candidate must produce to the secretary—1. Satisfactory evidence of his having attained the age of twenty-one years, and of having been duly registered. 2. The tickets and certificates of his classes. 3. The certificate of his having passed the First Professional Examination. And 4. A tabular statement (for which a printed form will be furnished) exhibiting the full amount of his professional education, and distinguishing the classes, hospitals, dispensaries, and schools attended during each session of his studies. If he have been an apprentice, he must also insert the name of his master, and the date of his indenture. This statement, accurately filled up, must be attested by his signature, and will be preserved by the College. If the candidate have been an apprentice to a Fellow of the College, he must also produce his discharged indenture.

The remaining fee payable to the College (being £9 9*s*.), together with the receipt for the fee paid for the First Professional Examination, must be lodged, not later than 9 A.M. of the day preceding the examination day, in the hands of the treasurer, who will certify this upon the secretary's letter. £5 5*s*. will be returned to unsuccessful candidates.

Candidates who have passed the First Examination in Anatomy, Physiology, and Chemistry, at any of the licensing boards recognised by the Medical Act, will be admissible to the Second Professional Examination on producing certificates of the whole course of study, of having passed their Preliminary and First Professional Examinations, and of having been registered. If any of the three subjects of the first examination have been omitted, such candidates will have to undergo an examination on the omitted subjects; and none of the subjects set down will be omitted at the second examination, even if some of them should have formed part of the first examination by another board. The fee is £15 15*s*. Unsuccessful candidates under this regulation receive back £11 11*s*.

In order to test more effectually the practical knowledge of candidates, recent dissections, anatomical specimens, and articles of the materia medica will be employed during the examinations; and all candidates will be required to write out formulæ of prescriptions. They will also be subjected to a practical clinical examination in the surgical hospital, including the application of surgical apparatus, bandages, &c.

No candidate will be admissible to examination who has been rejected by any other licensing board within the three months preceding his application to be examined.

Those candidates who have passed the First Professional Examination before the 31st December, 1878, will be required to pay, as under the old regulation, a fee of £6 for the second examination, provided they appear for that examination prior to 1st January, 1881; and in the event of being unsuccessful £2 will be retained.

ROYAL COLLEGES OF PHYSICIANS AND SURGEONS, EDINBURGH.

The Royal College of Physicians of Edinburgh, and the Royal College of Surgeons of Edinburgh, while they still continue to give their diplomas separately, under separate

regulations, have made arrangements by which, after one series of examinations, the student may obtain the diplomas of both Colleges. The general principle of this joint examination is, that it shall be conducted by a board in which each body is represented in those branches which are common to both medicine and surgery; but that the College of Physicians shall take exclusive charge of the examination in Medicine, and the College of Surgeons of the examination in Surgery. The object of the joint examination is to give to students facilities for obtaining from two separate bodies, and at less expense, a qualification in Medicine and a qualification in Surgery. Students passing that examination successfully will be enabled to register two qualifications under the Medical Act—Licentiate of the Royal College of Physicians of Edinburgh, and Licentiate of the Royal College of Surgeons of Edinburgh. The arrangement for thus conferring a double qualification by the co-operation of the two Colleges is in conformity with section 19 of the Medical Act, and has received the special sanction of the General Council of Medical Education and Registration.

FACULTY OF PHYSICIANS AND SURGEONS OF GLASGOW.

Preliminary Examinations in General Literature, in accordance with the regulations of the General Council, will be held in the Faculty Hall during the session 1878-79 on the following Fridays, commencing at 11 o'clock—namely, October 18th, 1878; April 18th, July 25th, and September 12th, 1879; and on each occasion the examination will be continued on the succeeding day. Those who are unsuccessful may appear at one subsequent examination without paying a second fee. The fee for the examination and certificate is 10s., payable to the secretary previous to the examination.

The course of study for the diploma and the regulations generally correspond with those required by the Royal College of Surgeons of Edinburgh.

The professional examinations are held at four periods in 1879—in January, April, July, and October. The following are the dates at which the first examination will begin in 1879; Jan. 7th, April 8th, July 15th, and Oct. 7th. The second examination will commence on Jan. 9th, April 10th, July 17th, and Oct. 19th. Candidates will not be admitted to the final examination until the expiry of forty-five months from the date of registration, which period must embrace at least three winter and two summer sessions, or four winter sessions, of study at a medical school.

The regulations regarding examinations are nearly similar to those of the Royal College of Surgeons of Edinburgh.

The fee for the diploma is fifteen guineas—six guineas for the first and nine guineas for the second examination; but candidates who have passed the first examination before Dec. 31st, 1877, will be admitted to the second examination on paying the fee formerly chargeable—namely, £6.

REGULATIONS REGARDING THE DOUBLE QUALIFICATION.

The Faculty of Physicians and Surgeons of Glasgow, and the Royal College of Physicians, Edinburgh, grant their diplomas conjointly before a board of examiners in which each body is represented, the object being to give to students facilities for obtaining from two separate bodies, and at less expense, a double qualification in Medicine and Surgery. Students passing this examination successfully will be enabled to register two qualifications under the Medical Act—namely, Licentiate of the Faculty of Physicians and Surgeons of Glasgow, and Licentiate of the Royal College of Physicians of Edinburgh. The curriculum of study embraces a course of Medicine, in addition to the subjects required for a diploma of the Faculty. The fee for the first examination is eight guineas; for the second twelve guineas.

The examination for the Double Qualification will begin in the Faculty Hall, Glasgow, at the following periods—namely, first examination, October 8th, 1878; January 7th, April 8th, and July 15th, 1879. The second examination will begin on October 15th, 1878; January 14th, April 15th, and July 22nd, 1879.

Applications to be admitted to either the first or second examination must be made to the Secretary of the Faculty not later than one week preceding the examination.

Candidates who have passed the first examination on or before Dec. 31st, 1877, are admitted to the second on the fee formerly chargeable—namely, £10.

The other regulations are nearly the same as those for the diploma of the Faculty.

KING AND QUEEN'S COLLEGE OF PHYSICIANS IN IRELAND.

Every candidate for the Licence in Medicine or Midwifery must return his name to the registrar of the College, and lodge with him his certificates, bank receipt of fees, and his schedule, at least four days before the first Friday in each month.

Every candidate for the Licence of the College to Practise Medicine is required to produce satisfactory evidence:—1. Of character, from a fellow of the College, or from two registered practitioners. 2. Of having passed an examination in General Education, held by some one of the examining bodies recognised by the General Medical Council. 3. Of having been engaged during a period of four years in the study of medicine. 4. Of having attended courses of lectures on the following subjects, at schools recognised by the College:—Practical Anatomy, two courses; Physiology or Institutes of Medicine, one course; Chemistry, one course; Practical Chemistry, one course; Materia Medica, one course; Medical Jurisprudence, one course; Practice of Medicine and Pathology, one course; Surgery, one course; Midwifery, one course. 5. Of having attended for twenty-seven months a recognised medico-chirurgical hospital, in which clinical lectures and clinical instruction in medicine are given, the attendance not to be for more than nine months in any one year—viz., six winter and three summer months; and of having been in attendance during at least nine months on a clinical hospital which contains wards for the treatment of the infectious fevers—said nine months being included in the total period of twenty-seven months. 6. Of having attended Practical Midwifery and Diseases of Women for six months at a lying-in hospital, or maternity, recognised by the College; or, where such hospital attendance cannot have been obtained during any period of the student's course of study, of having been engaged in Practical Midwifery under the supervision of a registered practitioner holding public appointments; the certificate, in either case, to state that not less than twenty labour cases have been actually attended. 7. Of having lodged the admission fee in the Royal Bank of Ireland to the credit of the College.

The Professional Examination is divided into two parts: first part—Anatomy, Physiology, Chemistry, and Materia Medica; second part—Practice of Medicine, Clinical Medicine, Pathology, Medical Jurisprudence, Midwifery, Hygiene, and Therapeutics. Candidates may be examined in the subjects of the first part at the termination of the second year of study, on producing the prescribed certificates; or in all the subjects of their education, on the completion of their medical studies. No candidate can be examined in all the subjects of the first and second parts in the same months. Candidates qualified as follows are required to undergo the second part only of the Professional Examination—viz.: (1) graduates in Medicine of any university in the United Kingdom, or of any foreign university approved by the College; (2) fellows, members, or licentiates of the Royal Colleges of Physicians of London or Edinburgh; (3) graduates or licentiates in Surgery; (4) candidates who, having completed the prescribed curriculum, shall have passed the previous Professional Examination, or Examinations, of any of the licensing medical authorities in the United Kingdom mentioned in Schedule A of the Medical Act, 1858.

Any registered practitioner of five years' standing shall be admitted to examination for the licence of the College on producing his certificate of registration, with satisfactory reference, and shall have the privilege of being exempted from the examination by printed questions.

Fee for the licence to practise medicine, 15 guineas, which may be divided as follows, viz.:—For examination at the termination of the first period of study, five guineas; for final examination for the licence, ten guineas. Fee for examination for the licence to practise midwifery, three guineas. Fee for special examination for the licence to practise medicine, 20 guineas. Fee for special examination for the licence to practise midwifery, five guineas. The admission fee, less the sum paid to the examiners, will be returned to any candidate rejected at any of the College examinations.

ROYAL COLLEGE OF SURGEONS IN IRELAND.

Registered pupils who pay a fee of five guineas are admitted to the Preliminary Examination of the College without further fee, and are permitted to study each week-day in the Museum from 11 o'clock A.M. to 3 o'clock P.M., and to read in the Library from 10 o'clock A.M. to 6 o'clock P.M. They are also permitted to attend the lectures on Comparative Anatomy, and to obtain a certificate for such attendance without payment of any fee. These privileges are open to the students of any school recognised by the Council who may have enrolled themselves as registered pupils of the College. Students who are not registered pupils (whilst expected to register previous to the commencement of their professional studies) are also permitted to present themselves for the Preliminary Examination at any period previous to their first professional examination, upon payment of a matriculation fee of 10*s*.

The following are the subjects for the Preliminary Examination:—The English language (Grammar and Composition), Arithmetic (Vulgar and Decimal Fractions), Algebra (Simple Equations), Geometry (first two books of Euclid), Greek and Latin (Translation and Grammar), in Greek; the Gospel of St. John, or the first book of Xenophon's Anabasis, or the Dialogue of Lucian entitled "Menippus or the Necromancy"; in Latin the Æneid of Virgil, books 1 and 2, or the Jugurthine War of Sallust, or the Third Book of Livy. These examinations are held quarterly—viz., on the third Wednesday in January, April, July, and October in each year. Fee, free to registered pupils; for non-registered pupils, 10*s*. Candidates are required to enter their names, and to pay their fees to the registrar, at least six days previous to the day of examination. N.B.—Students who have passed any of the Preliminary Examination Boards recognised by the General Medical Council, into the curriculum of which the Greek language enters as a compulsory subject, are exempt from any further preliminary examination, and are entitled to become registered pupils.

Special Examinations.—Every registered pupil is admitted, upon payment of a special fee of five guineas, to a special examination for letters testimonial. He must pay a sum of twenty guineas in the Bank of Ireland, to the credit of the President, and for the use of the College; fifteen guineas of which will be returned if rejected.

Stated Examinations.—Stated examinations are held in the months of April, July, and November, commencing on dates of which due notice will be given beforehand by the Council of the College, and to which candidates cannot be admitted unless they be registered pupils, and at which they will be divided into two classes—junior and senior. The junior class will be examined in Anatomy, Histology, Physiology, Materia Medica, and Chemistry. The fee for this examination is five guineas, in addition to the registration fee of five guineas; but to be allowed the candidate in case he presents himself a second time for examination. The senior class must produce certificates of having attended three courses of lectures on the Theory and Practice of Surgery, one course of lectures on the Practice of Medicine, and one course of lectures on Midwifery; also certificates of attendance on a recognised hospital for three winter and three summer sessions. This class will be examined in Surgery, Operative Surgery and Surgical Appliances, Practice of Medicine, Medical Jurisprudence and Prescriptions. The fee for this examination is fifteen guineas; returnable to the candidate in case of rejection. In addition to the foregoing fees a fee of one guinea is to be paid to the registrar.

Qualifications of Candidates for the Fellowship.—Every registered pupil or licentiate may be admitted to examination for the Fellowship if he shall have lodged in the Bank of Ireland, for the use of the College, if he be a licentiate, the sum of twenty guineas, or thirty-five in case he be only a registered pupil, provided, in either case, he intends to reside beyond ten miles from Dublin; or, if he reside in Dublin, or within ten miles thereof, he must lodge thirty guineas, or if he be only a registered pupil, forty-five guineas. He must be twenty-five years of age, and be a Bachelor of Arts of some university, or show that he has obtained a liberal preliminary education. He must, moreover, produce a certificate of general good conduct and certificates of attendance on the several courses of lectures required to be attended by candidates for letters testimonial, together with one course of lectures on Comparative Anatomy, and one course of lectures on Natural Philosophy. A thesis on some medical subject, or clinical reports, with observations, of six or more medical or surgical cases taken by himself will also be required, and certificates of having been engaged in the acquisition of professional knowledge for a period of not less than six years, three of which must have been spent in one or more of the schools and hospitals recognised by the Council. Licentiates of the College who may not be able to show that they have followed the course of study specified in the preceding regulations, may, at the expiration of ten years from the date of their diploma, be admitted to the examination required for the Fellowship provided they produce such evidence as shall be satisfactory to the Council that they have conducted themselves honourably in the practice of their profession.

Examination of Candidates for Letters Testimonial.—Examinations of candidates for letters testimonial, special and stated, will be held in April, July, and November, upon such days as the Council may direct.

Junior classes will be examined in Dissections, Anatomy, Physiology, Histology, Materia Medica, and Chemistry, written and *viva voce*. The senior class will be examined in Surgery, Practice of Medicine, Medical Jurisprudence, and Prescriptions, written and *viva voce*, and in Clinical Examination and Operative Surgery.

The fees to be paid by candidates for letters testimonial are:—Registration fee, £5 5*s*.; Junior Class Examination fee, £5 5*s*.; Senior Class Examination fee, £15 15*s*.—total, £26 5*s*. In addition to the foregoing, a fee of one guinea is to be paid to the registrar on handing each licentiate his diploma.

Examination of Candidates for the Fellowship.—Examinations for the Fellowship will be held from time to time as the Council may direct. The subjects of the First Examination will be Anatomy and Physiology (human and comparative); those of the second, Pathology, Therapeutics, the Theory and Practice of Medicine and Surgery, and Clinical Surgery. In cases of licentiates of ten years' standing, the examinations will be mainly clinical and practical. In addition to the oral examinations, candidates will be required to give written answers to either written or printed questions (which will be delivered to them in such manner as the Council may direct), and to perform Dissections and Operations.

THE SOCIETY OF APOTHECARIES, LONDON.

Every candidate for a Certificate of Qualification to practise as an Apothecary will be required to produce testimonials—Of having passed a Preliminary Examination in Arts as a test of general education. (This examination must be passed before the commencement of medical studies. Medical studies commenced before the candidates shall have passed an examination on the subject of general education will not be recognised.) Of having attained the full age of twenty-one years. Of good moral conduct. A certificate of three months' Practical Pharmacy from some recognised hospital or dispensary, or from a qualified medical practitioner. And of having pursued a course of medical study in conformity with the regulations of the Court.

The course of medical study required for a licence must occupy at least four years, of which not less than three winter and two summer sessions must be passed at a recognised school or hospital. The following will be recognised and considered equivalent to eighteen months' study, in addition to the two years and a half above mentioned. (*a*) Attendance on the practice of a hospital or other public institution recognised by this Hall for that purpose. (*b*) Instruction as the pupil or assistant of a registered practitioner, physician or surgeon to a hospital, general dispensary, or union workhouse, or where such opportunities of practical instruction are afforded as may be deemed satisfactory.

Course of Study.—Every candidate must attend the following lectures and medical practice: each winter session to consist of not less than six months, to commence on the 1st and not later than the 15th of October; each summer session to commence on the 1st and not later than the 15th of May.

First Year.—Winter Session: Chemistry, Anatomy and Physiology (including Dissections and Demonstrations). Summer Session: Botany, Materia Medica and Therapeutics, Practical Chemistry.

Second Year.—Winter Session: Anatomy and Physiology

(including Dissections and Demonstrations), Principles and Practice of Medicine, Clinical Medical Practice. Summer Session: Midwifery and Diseases of Women and Children, Forensic Medicine and Toxicology, Clinical Medical Practice.

Third Year.—Winter Session: Principles and Practice of Medicine, Clinical Medical Lectures, Morbid Anatomy, Pathology and Clinical Medical Practice. Summer Session: Practical Midwifery and Vaccination, Morbid Anatomy, Clinical Medical Practice.

No certificates of lectures or of anatomical instructions delivered in private to particular students apart from the ordinary classes of recognised public medical schools, can be received by the Court of Examiners. All certificates must be given on a printed schedule, and signed by the respective lecturers. Students will be supplied with schedules in London, at the various Schools of Medicine, on application at the commencement of their studies, and in the provincial towns, by the registrars of the medical schools.

Examination in Arts.—This examination will be held at the Hall of the Society on Friday and Saturday, January 24th and 25th, April 25th and 26th, September 19th and 20th. The examination will be conducted by means of printed papers. Candidates will be examined in the following branches; and no candidate will be approved unless he show a competent knowledge of each branch of the examination:—1. The English Language; 2. The Latin Language; 3. Mathematics; 4. One of the following subjects, at the option of the candidate—Greek, French, German, Natural Philosophy. Testimonials of proficiency in general education will be received from any of the licensing bodies, and also from recognised national, colonial, and foreign educational bodies—viz., a degree in Arts of any university of the United Kingdom, or of the colonies, or of such other universities as may be specially recognised from time to time by the Medical Council.[12] The fee for the examination is one guinea. If a candidate fail to pass the examination, the fee will not be returned to him, but he will be admissible to either, or to both, of the two next following examinations without payment of an additional fee, upon giving at least one week's notice.

Prizes are annually offered for proficiency in the knowledge of the Materia Medica and of Pharmaceutical Chemistry. The prizes consist of a gold medal awarded to the candidate who distinguishes himself the most in the examination; and of a silver medal, and a book or books, to the candidate who does so in the next degree. Also, two prizes for proficiency in the knowledge of Botany, consisting of a gold medal awarded to the candidate who distinguishes himself the most in the examination; and of a silver medal, and a book or books, to the candidate who does so in the next degree.

Professional Examinations.—The Court of Examiners meet in the Hall every Wednesday and Thursday, where candidates are required to attend at 4.30 P.M. Every candidate intending to offer himself for examination must give seven days' notice previous to the day of examination, and must at the same time deposit all the required certificates with the fee, at the office of the beadle, where attendance is given daily from 10 till 4 o'clock; Saturdays, 10 till 2. Certificates in arts granted by any of the bodies whose certificate is recognised by the Medical Council, will be accepted from candidates who present themselves at the Professional Examination at the Hall, as equivalent to their having passed the above examination. The certificates being found correct, a card to admit the candidate will be sent, stating the day and hour of examination.

[12] The following is a syllabus of subjects for examination in 1879.—1. *The English Language:* The leading features of its history, its structure and grammar. English Composition. 2. *The Latin Language;* January examination—Cicero, De Senectute; April examination—Horace, Odes, book iii. September examination—Cæsar, De Bello Gallico, book iv. from ch. 20; book v. to ch. 23. Re-translation of easy sentences. Grammatical questions will be introduced into the Latin paper, and each candidate will be expected to give satisfactory answers to these. 3. *Mathematics:* The ordinary rules of Arithmetic. Vulgar and Decimal Fractions. Addition, Subtraction, Multiplication, and Division of Algebraical Quantities. Simple Equations. The first two books of Euclid. 4. *(a) Greek:* Xenophon, Anabasis, books i. and ii. Grammatical Questions. *(b) French:* January and April—Molière, Le Malade Imaginaire. September—Racine, Athalie. Translation from English into French. Grammatical questions. *(c) German:* Schiller, Wilhelm Tell. Translation from English into German. Grammatical questions. *(d) Natural Philosophy:* Mechanics. Hydrostatics and Pneumatics. (The books recommended for study in this subject are Smith's "Statics," and Smith's "Hydrostatics," or Newth's "Natural Philosophy."

The examination of candidates is divided into two parts, and is conducted partly in writing, and partly *viva voce*.

The First Examination, which may be passed after the second winter session, embraces the following subjects:—Physicians' Prescriptions and Pharmacy; Anatomy and Physiology; General and Practical Chemistry; Materia Medica and Botany; Histology. Testimonials are required of candidates for the First Examination of having passed an examination in arts recognised by the Medical Council; of having completed the curriculum of study to the close of the second winter session; of having attended three months' Practical Pharmacy; and of good moral conduct. (Any candidate who presents himself for the First Examination and is rejected, may be admitted to re-examination at the expiration of three calendar months.)

The Second Examination, at the termination of the medical studies, embraces Principles and Practice of Medicine; Pathology and Therapeutics; Midwifery, including the Diseases of Women and Children; Forensic Medicine and Toxicology; Microscopical Pathology.

Certificates are required of candidates for the Second of Pass Examination, of having completed four years' medical study, including the period spent at the hospital; of being twenty-one years of age; and of good moral conduct. Of having passed the First Examination. Of having completed the prescribed curriculum of study according to the schedule, including a personal attendance of twenty cases of midwifery; and of having received instruction in Practical Vaccination, and vaccinated not less than twenty cases. Of having served the office of clinical clerk at a recognised hospital during the period of six weeks, at least. Of having been examined at the class examinations instituted by the various lecturers and professors of their respective medical schools and colleges. No rejected candidate for the licence can be re-examined until the expiration of six calendar months from his former examination.)

Fees.—For a Certificate of Qualification to Practise, six guineas, half of which is retained in case of rejection, to be accounted for at a subsequent examination. For the First Examination, three guineas, which sum is retained in case of rejection and accounted for subsequently. For the Second Examination, three guineas. For an Assistant's Certificate, two guineas, which sum is retained in case of rejection and accounted for subsequently. N.B. After two rejections a second fee of three guineas will be required, or one guinea in the case of an Assistant.

APOTHECARIES' HALL OF IRELAND.

The *Arts Examination* will be held at the Hall four times in the year—viz., the third Thursday in the months of January, April, July, and October, at 12 o'clock.

Unsuccessful candidates will be remitted to their studies for a period of six months.

Professional Education.—Every candidate for the licence to practise Medicine and Pharmacy must produce certificates to the following effect:—Of having passed an examination in Arts previously to entering on professional study. Of registration as a medical student from the Registrar of the Medical Council.[13] Of being at least twenty-one years of age, and of good moral character. Of pupilage to a qualified apothecary, or of having been otherwise engaged at *practical* Pharmacy for a period of twelve months subsequent to having passed the examination in Arts. Of having spent four years in professional study. Of having attended the following courses—namely: Chemistry, during one winter session; Anatomy and Physiology, during two winter sessions; Demonstrations and Dissections, during two winter sessions; Botany and Natural History, during one summer session; Practical Chemistry (by daily instruction in a recognised laboratory), during three months; Materia Medica, during three months; Principles and Practice of Medicine, during one winter session; Midwifery and Diseases of Women and Children, during six months; Practical Midwifery at a recognised hospital (attendance upon twenty cases); Surgery, during one winter session; Forensic Medicine, during one summer session; instruction in the practice of Vaccination. Of having attended at a recognised hospital or hospitals the Practice of Medicine and Clinical Lectures on Medicine, during two winter and two

[13] A person, having first passed an examination in Arts, may be registered as a "medical student" who has commenced the study of the profession either at a medical school, hospital, or as an apprentice or pupil to a registered practitioner.

summer sessions; also the Practice of Surgery and Clinical Lectures on Surgery, during one winter and one summer session. Of practical study, with care of patients, as apprentice, pupil, assistant, clinical clerk, or dresser, in hospital, dispensary, or with a registered practitioner. Of having performed the operation of Vaccination successfully under a recognised vaccinator.

The *Examination for the Licence* is divided into two parts. The first part comprehends Chemistry, including Physics, Botany, Anatomy, Physiology, Materia Medica, and Pharmacy; the second, Medicine, Surgery, Pathology, Therapeutics, Midwifery, Forensic Medicine, and Hygiene.

Candidates at the examination on Anatomy are liable to be called on to perform dissections; and at the examination on Surgery, to perform one or more operations on the dead subject.

The *Professional Examinations* will be held quarterly, and will commence on the first and second Monday in the months of January, April, July, and October. They will be carried on as follows:—The first part, on the first Monday, at 12 o'clock noon; and on the Tuesday and Wednesday succeeding, at the same hour. Subjects: Chemistry, including Chemical Physics, and Botany, Monday; Anatomy and Physiology, Tuesday; Materia Medica and Pharmacy, Wednesday. The second part, or final examination, on the second Monday, at 12 o'clock noon; and on the Tuesday and Wednesday succeeding, at the same hour; on Thursday, clinical examination. Subjects: Medicine and Surgery, including Pathology and Therapeutics, Monday; Midwifery and Diseases of Women and Children, Tuesday; Forensic Medicine and Hygiene, Wednesday; clinical examination, Thursday.

ARMY MEDICAL DEPARTMENT.

6, Whitehall-yard, S.W.

Every candidate desirous of presenting himself to compete for a commission in the Army Medical Department must be 21 years of age, and not over 32 years at the date of commencement of the competitive examination. He must produce an extract from the register of his birth, or in default, a declaration, made before a magistrate by one of his parents or guardians, giving his exact age. He must also produce a recommendation from some person of standing in society—not a member of his own family—to the effect that he is of regular and steady habits, and likely in *every* repect to prove creditable to the Department if a commission be granted; and also a certificate of moral character from the parochial clergyman, if possible. The candidate must sign a declaration upon honour that both his parents are of unmixed European blood, and that he labours under no mental or constitutional disease, nor has any hereditary tendency thereto, nor any imperfection or disability that can interfere with the efficient discharge of the duties of a medical officer in any climate; also that he does not hold, and has never held, any commission or appointment in the Public Services. His physical fitness will be determined by a board of medical officers, who are required to certify that the candidate's vision is sufficiently good to enable him to perform any surgical operation without the aid of glasses. A moderate degree of myopia will not be considered a disqualification, provided it does not necessitate the use of glasses during the performance of operations, and that no organic disease of the eyes exists. The Board must also certify that he is free from organic or other disease, and from constitutional weakness, or tendency thereto, or other disability of any kind likely to unfit him for military service in any climate. Certificates of age, registration of diplomas, &c., and of character, must accompany the declaration when signed and returned.

Candidates will be examined by the Examining Board in the following compulsory subjects, and the highest number of marks attainable will be distributed as follows:—(*a*) Anatomy and Physiology, 1000; (*b*) Surgery,[14] 1000; (*c*) Medicine, including Therapeutics, the Diseases of Women and Children, 1000; (*d*) Chemistry and Pharmacy, and a practical knowledge of drugs, 100. The eligibility of each candidate for the Army Medical Service will be determined by the result of the examinations in these subjects only.

Examinations will also be held in the following voluntary subjects: French and German, Natural Sciences. The knowledge of modern languages being considered of great importance, all intending competitors are urged to qualify in French and German. The natural sciences will include Comparative Anatomy, Zoology, Natural Philosophy, Physical Geography, and Botany, with special reference to Materia Medica. The number of marks gained in both the voluntary subjects will be added to the total number of marks obtained by those who shall have been found qualified for admission, and whose position on the list of successful competitors will thus be improved in proportion to their knowledge of modern languages and natural sciences.

After passing this examination, every candidate will be required to attend one entire course of practical instruction at the Army Medical School on—Hygiene, Clinical and Military Medicine, Clinical and Military Surgery, and Pathology of Injuries and Diseases incident to Military Service.

The ranks and rates of pay of the officers of the Army Medical Department are as follows:—

	Daily. £ s. d.	*Charge Pay.*
Surgeon-General	2 0 0	The principal Medical
After 25 years' service ..	2 5 0	Officer of an Army in
,, 30 ,, ..	2 7 0	the Field consisting of
,, 35 ,, ..	2 10 0	10,000 men and upwards,
Deputy Surgeon-General ..	1 10 0	£1 daily; of 5000 men
After 25 years' service ..	1 12 0	and upwards, 15s. daily;
,, 30 ,, ..	1 15 0	of less than 5000, 10s.
,, 35 ,, ..	1 17 0	daily.
Surgeon-Major, on appointment	1 0 0	Or the Principal Medi-
After 5 years' service as such	1 5 0	cal Officer of a Colony
Surgeon, on appointment ..	£250 a year.	where the number of
	Daily.	commissioned officers
After 10 years' service	0 17 6	and enlisted men is 1500 and upwards, 5s. daily.

The pay of officers is issued monthly in arrear.

Admission to the Army Medical Department is by public competition. Every candidate for appointment to the Army Medical Department must possess two diplomas or licences, one to practise Medicine and the other Surgery in Great Britain or Ireland; and be registered under the Medical Act in force at the time of his appointment. A successful candidate, who, having passed through a course of instruction at the Army Medical School at Netley, in Military Medicine, Surgery, Hygiene, and Pathology, shall have proved, after examination, that he possesses a competent knowledge of those subjects, will receive a commission as surgeon for a limited period of ten years' service on full pay. From the date of joining at Netley, and up to that of passing his final examination, a candidate will receive 5*s.* a day, and he will be required to provide himself with the uniform—viz., the uniform of a surgeon (undress), without sword. On the completion of ten years' commissioned service, unless the surgeon be specially selected for further employment in the Medical Department of the Army, or, if he be unwilling to continue to serve therein, his services will be dispensed with, and he will be entitled to receive in lieu of all pension or retirement, pension for wounds excepted, the sum of £1000.

ARMY MEDICAL SCHOOL.

Royal Victoria Hospital, Netley.

All gentlemen who have been successful in the competitive examinations, held twice a year (February and August), in London, for appointments in the medical services of the Army (British and Indian) and of the Navy, attend subsequently, at the Royal Victoria Hospital, a course of practical instruction in the duties they will have to perform in the public services. The course lasts four months; at the end of the session an examination is held to ascertain the progress made by the candidates, who are afterwards gazetted as surgeons, taking their seniority according to the aggregate number of marks then gained at both the London and the Netley examinations. The lectures on Military Surgery include gunshot and other wounds; arrangements for the transport of wounded; duties of army surgeons in the field, during sieges, on transports, &c.; and other special subjects. Those on Military Medicine refer to the tropical and other diseases of the British possessions and colonies, and to the losses by disease in peace and war, at home and abroad. The lectures on Hygiene comprise the examination of water and air, of food, clothing, &c., of the soldier, his duties and exercise, and the circumstances affecting his health; the subjects of meteorology, statistics, and the prevention of the different diseases met with in the army, on home or foreign service.

[14] The examination in medicine and surgery will be in part practical, and will include operations on the dead body, the application of surgical apparatus, and the examination of medical and surgical patients at the bedside.

The lectures on Pathology have reference chiefly to Morbid Anatomy and the scientific examination of tropical diseases, and of other complaints which the army surgeon is especially called on to investigate. The candidates also attend the wards of the hospital to study the diseases of invalids under the Professors of Medicine and Surgery, the system of recruiting, and the modes of keeping the army medical returns and records. They are also called on to make post-mortem examinations, to operate on the dead body, and pass through courses of practical instruction in the laboratory on the modes of recognising the qualities and adulterations of food, and in the microscope-room on the modes of microscopic examination of morbid tissues and of adulterations of food, &c. Visits are also paid at stated intervals to the lunatic hospital attached to the Royal Victoria Hospital, and instruction is given by the surgeon-major in charge.

INDIAN MEDICAL SERVICE.

[India Office, St. James's-park, S.W.

All natural-born subjects of Her Majesty, between twenty-two and twenty-eight years of age at the date of examination, and of sound bodily health, may be candidates. They may be married or unmarried. They must possess a diploma in Surgery, or a licence to practise it, as well as a degree in Medicine or a licence to practise it, in Great Britain or Ireland. They must subscribe and send in to the Military Secretary, India Office, Westminster, so as to reach that address at least a fortnight before the date fixed for the examination, a declaration containing an attestation that they are ready to proceed on duty immediately on being gazetted, that they labour under no mental or physical disability, and that they possess a recognised degree or licence to practise. This declaration must be accompanied by proof of age, either by the candidate's own declaration, form of which can be obtained at the India Office; a certificate of moral character from a magistrate or a minister of the religious denomination to which the candidate belongs, who has personally known him for at least the two years preceding the date of his application; and a certificate of registration, in accordance with the Medical Act of 1858, of the degrees, diplomas, and licences possessed by the candidate. The physical fitness of candidates will be determined as in the case of candidates for the Army Medical Service. On producing the foregoing qualifications, the candidate will be examined in the following compulsory subjects:—Anatomy and Physiology, Surgery, Medicine (including Therapeutics, the Diseases of Women and Children), Chemistry and Pharmacy, and a practical knowledge of Drugs. The eligibility of each candidate for the Indian Medical Service will be determined by the result of the examinations in these subjects only. Candidates, who desire it, will be examined in French, German, and Hindustani, Comparative Anatomy, Zoology, Natural Philosophy, Physical Geography, and Botany, with special reference to Materia Medica.

After passing the Preliminary Examination, candidates will be required to attend one entire course of Practical Instruction at the Army Medical School, before being admitted to examination for a commission, on Hygiene, Clinical and Military Medicine, Clinical and Military Surgery, Pathology of Diseases and Injuries incident to Military Service. These courses are to be of not less than four months' duration; but candidates who have already gone through a course at Netley as candidates for the Army or Navy Medical Service may, if thought desirable, be exempted from attending the School a second time. At the conclusion of the course, candidates will be required to pass an examination on the subjects taught in the School. The examination will be conducted by the professors of the School. The position of the candidates on the list of surgeons will be determined by the combined results of the preliminary and of the final examinations, and, so far as the requirements of the service will permit, they will have the choice of Presidency in India, according to their position in that list.

N.B.—The examinations for admission to the Indian Medical Service will usually take place twice a year—viz., in February and in August.

NAVAL MEDICAL SERVICE.

Admiralty, 9, New-street, Spring-gardens, S.W.

Every candidate desirous of presenting himself for admission to the Naval Medical Service must not be under twenty-one nor over twenty-eight years of age. He must produce a certificate from the district registrar, in which the date of birth is stated; or, if this cannot be obtained, an affidavit from one of the parents or other near relative, who can attest the date of birth, will be accepted. He must also produce a certificate of moral character. The candidate must make a declaration that he labours under no mental or constitutional disease, nor any imperfection or disability that can interfere with the most efficient discharge of the duties of a medical officer in any climate. He must also attest his readiness to engage for general service, and to proceed on foreign service when required to do so. The candidate must be registered under the Medical Act in force at the time of his appointment as licensed to practise medicine and surgery in Great Britain or Ireland.

Candidates will be examined by the Examining Board in the following subjects:—Anatomy and Physiology; Surgery; Medicine (including Therapeutics and the Diseases of Women and Children); Chemistry and Pharmacy, and a practical knowledge of Drugs. (The examination in Medicine and Surgery will be in part practical, and will include operations on the dead body, the application of surgical apparatus, and the examination of medical and surgical patients at the bedside.) The eligibility of each candidate for the Naval Medical Service will be determined by the result of the examinations in these subjects only.

Candidates who desire it will be examined in Comparative Anatomy, Zoology, Natural Philosophy, Physical Geology, and Botany, with special reference to Materia Medica, also in French and German, and the number of marks gained in these subjects will be added to the total number of marks obtained in the obligatory part of the examination by candidates who shall have been found qualified for admission, and whose position on the list of successful competitors will thus be improved in proportion to the knowledge of these branches of science.

MEDICAL TEACHERS.

MR. EDW. B. AVELING, D.Sc., prepares for Preliminary Scientific, 1st and 2nd B.Sc. of London University.—Birkbeck Institution, 88, Camden-road, N.W.

Mr. BECKTON, C.M. (1st Class), continues to prepare for the Preliminary Examination of the Royal College of Surgeons both for Membership and Fellowship, and of the Apothecaries' Hall.—22, Lewisham High-road, S.E.

Dr. COALES, LL.D., M.A., prepares candidates, by class or private tuition, for the Preliminary Scientific and Matriculation Examinations of the London University, and for the Preliminary Examinations at the College of Surgeons and Apothecaries' Hall. Resident pupils received.—119, Gower-street, W.C.

Mr. JOHN JAMES EBERLE, Principal of the Preparatory Professional College, Easingwold, near York. Established 1874.—Young gentlemen prepared for the Preliminary Examinations in Arts of the Universities, any of the Professions and Services; also for the Primary, Pass, and Competitive Medical and Surgical Examinations. Superior accommodation, with home comforts, without the counter-attractions of town.

Dr. HEINEMANN, F.R.G.S., F.R.Hist.Soc., prepares gentlemen for the various Examinations.—80, Upper Gloucester-place, Portman-square.

Mr. G. HIND, F.R.C.S., will continue his Demonstrations, commencing on September 16th, at 12 noon.—29, Newman-street, Oxford-street.

Mr. THOMAS LYLE, F.R.Hist.S., prepares gentlemen for the Preliminary Examinations of the Apothecaries' Hall and the Royal College of Surgeons.—Fern House, 48, Navarino-road, Hackney, E.

Mr. MAGNUS announces that his course of private and class preparation for the University of London Matriculation and other Examinations will commence on Monday, 16th.—8, Oxford-terrace, Hyde-park, W.

Mr. MURRAY, B.A., Arkleton House, Wray-crescent, Tollington-park, N., prepares for the Preliminary Examination at the Royal College of Surgeons and Apothecaries' Hall, and the Matriculation at the University of London.

Mr. WM. NORRIE, M.A. &c., prepares students for the Medical Preliminary and Competitive Examinations generally.—19, Maitland-street, Edinburgh.

Dr. POWER continues his classes for the various Competitive and Pass Examinations, at 8, Red-lion-square, Holborn, W.C.

Mr. ALEX. RAMSAY, M.A., assisted by experienced tutors and foreign masters, carefully prepares candidates in Latin, Greek, Arithmetic, Mathematics, English Subjects, and Foreign Languages, for the College of Surgeons, Apothecaries' Hall, Law Society, and the Pharmaceutical Preliminary Examinations.—For terms and particulars, call or address, 1, Thanet-place, Strand.

Mr. HENRY SERGEANT, B.A. (Classical Honours) Lond. Univ., prepares for the London University Matriculation, College of Surgeons, Apothecaries' Hall, and the Scotch Universities, privately, in class, or by post.—8, High-street, Camden-town.

The Rev. G. STREETER, B.A. (Double Honours) Clare Coll. Camb., prepares for the London University Matriculation, College of Surgeons, Apothecaries' Hall, and Army and Navy Examinations.—Derwent House, Lee, Kent.

Mr. W. TOULDON, C.M., has successfully prepared candidates for the College of Surgeons; he continues to coach also for the Apothecaries' Hall, privately or by letter.—64, Grafton-street, Mile-end, E.

Mr. F. A. WHITE, B.A. (Classical and Mathematical Honours) Camb., prepares gentlemen for the London University Matriculation, College of Surgeons, and Apothecaries' Hall.—Woodleigh House, Beechurch-road, North Kensington, W.

The Medical Student's Class Guide.

TABULAR LIST OF THE CLASSES, LECTURERS, FEES, AND DAYS OF OPERATIONS AT THE LONDON HOSPITALS AND MEDICAL SCHOOLS FOR THE SESSION 1878-79.

LECTURES, ETC.	ST. BARTHOLOMEW'S HOSP. & COL.					CHARING-CROSS HOSPITAL & COLL.					ST. GEORGE'S HOSPITAL.				
	LECTURERS.	Days and Hours.	FEES. One Course.	FEES. Two Courses.	FEES. Perpetual.	LECTURERS.	Days and Hours.	FEES. One Session.	FEES. Two Sessions	FEES. Full Period.	LECTURERS.	Days and Hours.	FEES. One Course.	FEES. Two Courses.	FEES. Perpetual.
WINTER SESSION.			£ s.	£ s.	£ s.			£ s.	£ s.	£ s.			£ s.	£ s.	£ s.
ANATOMY AND PHYSIOLOGY	Mr. M. Baker Dr. Klein	M. Tu. Th. 2½	9 9	...	13 2	Dr. Silver Mr. Colquhoun	M. Tu. W. F. 3	4 4	6 6	7 7	Dr. Cavafy	Tu. Th. 3 F. 11	7 7	...	8 18*
ANATOMY, DESCRIPTIVE & SURGICAL	Mr. T. Smith Mr. Langton	Tu. W. Th. F. 9	7 7	...	13 2	Mr. Bellamy	M. W. Th. F. 9 A.M.	4 4	6 6	7 7	Mr. Pick	M. W. F. 3	7 7	...	8 18
ANATOMICAL DEMONSTRATIONS	Mr. Cumberbatch Mr. Walsham	Daily, 10½ to 4	...	...	...	Mr. Cantlie Mr. Whitehead	Daily	3 3	5 5	...	Mr. Branson	Daily	...	...	...
CHEMISTRY	Dr. Russell	M. W. F. 9	6 16	...	9 9	Mr. Heaton	M. W. F. 11	5 5	6 6	7 7	Mr. Wanklyn	T. Th. S. 11½	7 7	...	8 18
MEDICINE	Dr. Andrew Dr. Gee	M. Tu. Th. 3½	6 16	...	9 9	Dr. Pollock	M. W. F. 4	4 4	6 6	7 7	Dr. Barclay Dr. Dickinson	Tu. Th. S. 9	7 7	...	8 18
SURGERY	Mr. Savory Mr. Callender	W. F. 2½ S. 9½	6 16	...	9 9	Mr. Barwell	Tu. Th. S. 9 to 10	3 3	5 5	6 6	Mr. Holmes Mr. Rouse	M. W. F. 9	7 7	...	8 18
HOSPITAL PRACTICE: PHYSICIANS	Dr. Black Dr. Andrew Dr. Southey Dr. Church Dr. M. Duncan & Dr. Godson (*Obstet.*)	Tu. Th. S. M. Tu. Th. Tu. Th. S. M. Tu. Th. F. S. Th. 1½ S. 9	6 mths 15 15	24 mths 23 12	Perpet. 33 1	Dr. Pollock Dr. Silver Dr. Green	Daily, 1	6 mths 10 10	12 mths 15 15	21 0	Mr. Carter, *Opht.* Dr. Barclay Dr. Wadham Dr. Dickinson Dr. Whipham	F. 3 Daily, 1	6 mths 10 10	2 years 21 0	Perpet. 31 10
ASSISTANT-PHYSICIANS ...	Dr. Gee Dr. Duckworth Dr. Hensley Dr. Brunton	T. F. 11 W. S. 11 M. Th. 11	...	...	...	Dr. Bruce Dr. Irvine Dr. Lees Dr. Houghton	Tu. F. M. Th. W. S. 1.30	...	...	...	Dr. Cavafy Dr. Watney *Obst. Phys.:* Dr. Barnes	...	...	...	...
SURGEONS	Mr. Holden Mr. Savory Mr. Callender Mr. T. Smith	Daily M. Th. F. S. Tu. F. S. Daily	6 mths 19 19	12 mths 36 5	Perpet. 33 1	Mr. Hird Mr. Barwell Mr. Bellamy	Daily, 1 1 to 2	6 mths 10 10	12 mths 15 15	21 0	Mr. Pollock Mr. Holmes Mr. Rouse	Daily, 1	6 mths 10 10	2 years 21 0	Perpet. 31 10
ASSISTANT-SURGEONS	Messrs Willett, Langton, M. Baker & Marsh *Ophth.-Surgs.:* Mr. Power Mr. Vernon *Dental Surg.:* Mr. Coleman	W. S. 12 M. Th. 12 Tu. F. 12 Tu. Th. S. 1½	...	...	...	Mr. Bloxam Mr. Cantlie Mr. Amphlett	M. Th. Tu. Fr. W. S. 1.30	...	...	...	Mr. Pick Mr. Haward Mr. Stirling *Ophth. Surg.:* Mr. B. Carter	...	...	...	...
CLINICAL MEDICINE	Drs. Black, Andrew, Southey, and Church	Times of Clinical Lectures arranged in accordance with other work	...	...	...	Dr. Silver	Weekly	...	...	...	Dr. Dickinson Dr. Whipham Dr. Barclay (in Summer)	M. 2 M. 2	...	...	...
CLINICAL SURGERY	Sir J. Paget, Messrs Holden, Savory, Callender, & T. Smith		...	...	...	Mr. Hancock Mr. Canton Mr. Hird Mr. Barwell	Weekly	...	...	...	Mr. Pollock Mr. Pick Mr. Holmes (in Summer)	Tu. 2 Tu. 2	...	...	...
CLINICAL MIDWIFERY, &c.	Dr. M. Duncan	S. 10	...	...	...	Dr. Black	T. F. 1.30	...	...	...	Dr. Barnes	F. 2	...	...	...
DENTAL SURGERY	Mr. Coleman	Operations W. & S. 1½	...	...	...	Mr. Fairbank	M W F, 9.30 Operations Th. at 2	...	...	...	Mr. Winterbottom	Tu. 10 Operations Thurs. at 1 Operations on the Eye, F. 1½	...	...	...
	[*Hygiene:* Dr. Southey F. 3½]	Post-mort. exam. daily at 12 & 2½													
SUMMER SESSION.															
MATERIA MEDICA, &c. ...	Dr. Brunton	Tu. Th. S. 10, W. 11½	6 16	...	7 17	Dr. Bruce	T. Th. S. 10	3 3	5 5	6 6	Dr. Watney	M. W. F. 3	4 14	...	5 15
MIDWIFERY, &c.	Dr. M. Duncan	T. W. F. S. 8½	5 5	...	6 6	Dr. Black	M. 4 W. Th. F. 3	3 3	5 5	6 6	Dr. Barnes	M. W. F. 9	4 14	...	5 15
BOTANY	Rev G. Henslow	M. ..F. 10	4 4	...	5 5	Mr. Saunders	Tu. Th. S. 9	3 3	5 5	6 6	Dr. Owen	T. Th. 3, F. 9	3 13	...	4 14
MEDICAL JURISPRUDENCE	Dr. Southey	M. Tu. S. 9	4 4	...	5 5	Dr. Irvine	...	3 3	5 5	6 6	Dr. Wadham	Tu. Th. S. 9	4 14	...	5 15
PATHOLOGICAL ANATOMY	Dr. Gee	W. 9½	2 12	...	4 4	Dr. Irvine	...	...	...	...	Dr. Ewart	...	...	...	...
PRACTICAL CHEMISTRY ...	Dr. Russell	M. Tu. F. 11 to 1	3 3	...	3 3	Mr. Heaton Mr. Hooker	M. F. 10 to 1	2 2	...	...	Mr. Wanklyn	Daily, 10	4 4	...	...
COMPARATIVE ANATOMY...	Dr. Moore	M. Th. 11	2 12	...	4 4	Mr. Blake	...	...	...	4 4	Dr. Brailey	M. F. 4	4 4	...	...
PATHOLOGY & MORB. ANAT.	Dr. Legg & Surg. Registrars	1, 2½	...	...	...	Dr. T. H. Green	M. Th. 3 W. 4	3 3	...	...	Dr. Whipham (in Winter)	Th. 3	3 3	...	...
OPHTHALMIC SURGERY ...	Mr. Power Mr. Vernon In Winter	Tu. W. 12½ W. 2	2 12	...	4 4	R. W. O. H. *Public Health:* Mr. Heaton, Dr. Irvine, & Mr. Eassie	...	...	...	...	Mr. B. Carter *Pract. Med.:* Dr. Whipham	Fr. 3 T. Th. S. 9 in Summer	...	...	...
PSYCHOLOGY	Dr. Claye Shaw	...	2 12	...	4 4	Dr. Winslow	M.	...	...	...	Dr. Blandford	Tu. 3	...	...	...
DENTAL SURGERY	Mr. Coleman	...	2 12	...	4 4	Mr. Fairbank	...	...	...	...	Mr. Winterbottom	Tu. 10	...	...	...
PRACTICAL SURGERY... ...	Mr. Willett (and in Winter)	...	...	...	...	Mr. Bellamy Mr. Bloxam	...	...	...	...	Mr. Haward	Tu. Th. S. 3	4 4	...	...
PRACTICAL PHYSIOLOGY...	Mr. Symons (and in Winter)	...	7 7	...	...	Dr. Silver Mr. Cantlie	...	...	...	...	Mr. Stirling (in Winter)	Tu. Th. S. 1	3 3	...	...
PRACTICAL PHARMACY ...	Apoth. Depart.	...	...	...	...	Mr. Passmore	...	...	...	...	...	...	...	...	...
OPERATIVE SURG. (DEMONST.)	Mr. Cumberbatch Mr. Walsham	...	5 5	...	...	Mr. Bellamy	...	...	...	...	Mr. Stirling	M. W. F. 3 in Summer	3 3	...	...
DISEASES OF THE EAR ...	Mr. Langton	F. 2½	...	...	...	Mr. Bloxam	...	...	...	...	Mr. Dalby	W. 2	...	...	...
DISEASES OF THE SKIN ...	Mr. M. Baker	F. 1½	...	...	...	Dr. Sangster	M. Th., 1.30	...	...	...	Dr. Wadham	Th. 1	...	...	...
ORTHOPÆDIC SURGERY ...	Mr. Willett	F. 12½	...	...	...	...	...	...	...	...	[*Dis. Throat:* Dr. Whipham]	M. 2			
FEE for all Lectures and Hosp. Med. and Surg. Practice ...	...	...	...	...	140 14	...	...	...	...	80 7	...	...	...	...	125 0

* This fee includes also *Physiological Chemistry* (Dr. Ralfe, on Mon., Wed., and Fri., at 10 A.M.), and *Histology* (Dr. Watney, on Tues., Thurs., and Sat., at 10 A.M.)

TABULAR LIST OF THE CLASSES, LECTURERS, FEES, AND DAYS OF OPERATIONS AT THE LONDON HOSPITALS AND MEDICAL SCHOOLS, FOR THE SESSION 1878–79.—(CONTINUED.)

LECTURES, ETC.	GUY'S HOSPITAL. LECTURERS.	Days and Hours.	Fees. One Course.	Fees. —	KING'S COLLEGE AND HOSPITAL. LECTURERS.	Days and Hours.	Fees. One Course.	Fees. —	Fees. Perpetual.
WINTER SESSION.			£ s.				£ s.	£ s.	£ s.
PHYSIOLOGY	Dr. Pye-Smith	M. W. F. 4½	7 7		Dr. Gerald Yeo	M. W. Th. F. 4	8 8	...	11 11
ANATOMY, DESCRIPTIVE & SURGICAL	Mr. Howse	Tu. W. Th. F. 9	7 7		Dr. Curnow	Daily, 9	9 9	...	12 12
ANATOMICAL DEMONSTRATIONS	Mr. Davies-Colley Mr. Jacobson Mr. Carrington Mr. Symonds	Daily, 9 to 4	7 7		Dr. Curnow (Prac. Anat. only)	Daily	6 6	...	9 9
CHEMISTRY	Dr. Debus Dr. Stevenson	Tu. Th. S. 11	7 7		Mr. Bloxam Mr. Hartley Mr. Thompson	M. W. Th. S. 10½	8 8	...	11 11
MEDICINE	Dr. Wilks Dr. Pavy	M. W. F. 3	7 7		Dr. Beale	Tu. 4	8 8	...	9 9
SURGERY	Mr. Bryant Mr. A. E. Durham	Tu. Th. 3½ S. 2½	7 7		Mr. H. Smith	Th. F. 5 M. Tu. W. 5	8 8	...	9 9
PRACTICAL SURGERY	Mr. Lucas	...	4 4		Mr. H. Smith	...	3 3	...	5 5
HOSPITAL PRACTICE:	Sir W. Gull and Dr. Owen Rees (cons.)	...	3 mths 10 10		Dr. G. Johnson Dr. Beale	M. Th. 2 Tu. F. 2	6 mths	12 mths	Perpet.
PHYSICIANS	Drs. Habershon, Wilks, Pavy, and Moxon Dr. Hicks (obst.)	M. Th. S. M. Th. S. M. W. F. M. Th. F.	1½ 6 mths 15 15	For the entire of the Lectures and Hospital Practice—In the first year, £50; second year, £50; third year, £37 10s.; perpetual to the whole, 125 guineas.	Dr. Duffin Dr. Playfair (asst.) Dr. Burney Yeo	W. S. 2 Tu. Th. S. 1½ M. Th. 1	9 9	12 12	31 10
ASSISTANT-PHYSICIANS	Drs. Fagge, Pye-Smith, F. Taylor, Goodhart, & Galabin (obst.)	F. Tu. M. Th. S. 12 Out-patnts. at 12	1 year 24 3 Perp.		Drs. Ferrier, Curnow, & Baxter Dr. Hayes (accous.)	Tu. F. 1 W. S. 1 M. W. F. 1½			
SURGEONS	Messrs. Hilton, Cock, Birkett (cons.), Forster, Bryant, Durham, & Howse Mr. Bader (opht.)	M. Th. S. M. Th. M. Th. W. S. M. T	1½ 31 10 3 mths 10 10		Mr. Wood Mr. Lister Mr. H. Smith Mr. Bell	Tu. Th. S. 1½ M. W. F. 1½ M. W. F. 1½ Tu. F. 1	6 mths 9 9	12 mths 12 12	Perpet. 31 10
	Mr. Higgens (asst.) Mr. Salter (dent.) Mr. Moon (assist.)	Tu. F. Th. Tu. F.	6 mths 15 15		Mr. S. H. Cartwright (surg.-dentist) Mr. Soelberg Wells (ophthalmic)	Tu. F. 10 Tu. Th. S. 1			
	Mr. L. Purves (aural)	Tu. F.	1 year						
ASSISTANT-SURGEONS	Mr. Davies-Colley Mr. Lucas Mr. Golding-Bird Mr. Jacobson	W. Th. M. S.	Out-patients at 12 24 3 Perp. 31 10		Mr. Rose Dr. G. Yeo	W. S. 1 M. Th. 1	...	...	...
CLINICAL MEDICINE	Drs. Habershon, Wilks, Pavy, & Moxon	S. 1½	...		Dr. Duffin Dr. G. Johnson Dr. Beale	Alt. F. 3 Alt. M. 3 Alt. Tu. 3	...	...	...
	In Summer: Drs. Fagge, Pye-Smith, F. Taylor, & Goodhart	W. 1½	...						
CLINICAL SURGERY	Mr. Forster Mr. Bryant Mr. Durham Mr. Howse	W. 1½	...		Mr. Wood Mr. Lister	Tu. Th. 3 M. F. 1½	...	...	...
	In Summer: Mr. Davies-Colley Mr. Lucas Mr. Golding-Bird Mr. Jacobson	F. 1½							
CLINICAL MIDWIFERY	Dr. Hicks Dr. Galabin	W. 1½ Operations Tu. F. at 1½ On the Eye, M. F. 1½	...	...	Dr. Playfair	Alt. Th. 3 Operations W. 1½ Sat. at 1½	...	... To Med. & Surgical Practice	... £31 10 or £36 15
SUMMER SESSION.									
MATERIA MEDICA & THERAPEUTICS	Dr. Moxon	Tu. Th. F. 3	5 5	...	Dr. Baxter	Tu. W. Th. F. 8	5 5	...	6 6
MIDWIFERY, &c.	Dr. Hicks	Tu. W. Th. F. 9 A.M.	7 7	...	Dr. Playfair	Tu. W. Th. F. 9	5 5	...	6 6
BOTANY	Mr. Bettany	Tu. Th. S. 11½	5 5	...	Mr. Bentley	M. Tu. Th. F. 12½	4 4	...	6 6
MEDICAL JURISPRUDENCE	Dr. A. S. Taylor	Tu. Th. S. 10	5 5	...	Dr. Ferrier	M. Tu. W. F. 3	5 5	...	6 6
DISEASES OF WOMEN	Dr. Galabin	M. 3	...	...	Dr. Playfair	...	...	...	...
PRACTICAL CHEMISTRY	Dr. Debus	M. W. F. 10 to 1	7 7	...	Mr. C. L. Bloxam Mr. Hartley Mr. Thompson	M. W. F. 10½	6 6	...	8 8
PRACTICAL PHYSIOLOGY	Mr. Golding-Bird (in Winter)	M. W. S.	7 7	...	Dr. Gerald Yeo	Tu. S. 11½	6 6	...	8 8
NATURAL PHILOSOPHY	Mr. Reinold	M. 11	4 4	...	...	Tu. F. 11½	3 3	...	...
COMPARATIVE ANATOMY	Dr. Bailey (with Zoology)	Tu. Th. 2½	5 5	...	Mr. A. H. Garrod (in Winter)	M. Th. 4	4 4	...	6 6
PATHOLOGY AND MORBID ANATOMY	Dr. Fagge Dr. Goodhart	Daily, 2½ (in Sum., S. 9)	7 7 3 3	...	Dr. Duffin	Tu. Th. 4	3 3	...	4 4
OPERATIVE SURGERY	Mr. Lucas	...	7 7	...	...	...	6 6	...	...
MORBID HISTOLOGY	Mr. Howse	W. S. 1	4 4	...	...	...	...	...	...
OPHTHALMIC SURGERY	Mr. Bader	Th. 3	...	...	Mr. Wells	M. Tu. W. Th. 9	3 3	...	...
PSYCHOLOGICAL MEDICINE	Dr. Savage	Tu. 11, F. 10½	3 3	...	Dr. Sheppard	...	...	...	...
DENTAL SURGERY	Mr. Salter	Th. 12	...	...	Mr. S. H. Cartwright	Tu. F. 9	6 6	...	8 8
AURAL SURGERY	Mr. L. Purves	Tu. 12	...	...	Dr. Pritchard	Th. 2	...	...	...
DEMONST. OF CUTANEOUS DISEASES	Dr. Pye-Smith	Tu. 12	...	...	...	...	...	...	...
VACCINATION			...	...	Mr. Dunn	M. 10½	...	...	...
HYGIENE	Dr. F. Taylor	M. Th. 1½	3 3	...	...	...	...	...	...
PRACTICAL PHARMACY	...	...	3 3	...	...	...	...	...	...
FEE for Lectures, and Hospital Medical and Surgical Practice	...	...	...	£131 5	...	...	...	...	£125

TABULAR LIST OF THE CLASSES, LECTURERS, FEES, AND DAYS OF OPERATIONS, AT THE LONDON HOSPITALS AND MEDICAL SCHOOLS, FOR THE SESSION 1878-79—(CONTINUED.)

LECTURES, ETC.	LONDON HOSPITAL.					ST. MARY'S HOSPITAL.					MIDDLESEX HOSPITAL.				
	Lecturers.	Days and Hours.	Fees. One Session.	Fees. —	Fees. Perpetual.	Lecturers.	Days and Hours.	Fees. One Session.	Fees. —	Fees. Perpetual.	Lecturers.	Days and Hours.	Fees. One Session.	Fees. Two Courses.	Fees. Perpetual.
WINTER SESSION.			£ s.	£ s.	£ s.			£ s.	£ s.	£ s.			£ s.	£ s.	£ s.
PHYSIOLOGY	Mr. M'Carthy	Tu. Th. S. 10 A.M.	4 4	...	6 6	Mr. W. Pye	M. W. S. 12	4 4	...	...	Mr. Lowne	M. W. F. 9	6 6	...	8 8
EXPERIMENTAL PHYSIOL.	...	...	...	...	...	Dr. Shepherd	Tu W. F. 10	4 4	...	...	Mr. Lowne (in Summer)	M. W. Th. 9	4 4	...	5 5
PATHOL. & MORBID ANAT.	Dr Sutton & Dr S. Mackenzie	F. 9	3 3	...	6 6	Dr. Cheadle	M. Th. 3	4 4	...	...	Dr. Coupland	M. Th. 4			
ANATOMY, DESCRIPTIVE & SURGICAL.	Mr. Rivington ...	M. Tu. Th. F. 3	5 5	...	8 8	Mr. Edm. Owen	M. Tu. Th. F. 9	7 17	...	...	Mr. H. Morris	M. Tu. Th. F. 4	8 8	...	12 12
ANATOMICAL DEMONSTRATIONS.	[*Pract. Anat.*] Dr. H. S. Wilson	Daily, 10 to 4 (exc S. aft.)	5 5	...	8 8	Mr. Garbutt	Daily	...	...	...	Mr. Hensman	Daily	6 6	...	8 8
						Mr. W. Pearce (*asst. demonst.*)	M. Tu. Th. M. W. Th.				Mr. Williams	9 till 4			
CHEMISTRY	Dr. Tidy	M. Tu. W. Th. 11	7 7	...	7 7	Dr. Wright		6 16	...	...	Mr. W. Foster	M. W. Th. F. 3	6 6	...	8 8
						Mr. Luff, *Dem.*	S. 9 A.M.								
MEDICINE	Dr. Sutton Dr. Fenwick	Tu. W. 9 F. 4	5 5	...	6 6	Dr. Chambers Dr. Broadbent	M. W. T. 4	...	...	...	Dr. Cayley	Tu. Th. S. 9	6 6	...	8 8
SURGERY	Mr. Couper	M. Th. S. 9 A.M.	5 5	...	6 6	Mr. J. R. Lane Mr. Norton	Tu. F. 4 W. 3	5 5	...	...	Mr. Hulke Mr. Lawson	M. W. Th. 3	6 6	...	8 8
PRACTICAL SURGERY	Mr. Reeves	Tu. S.	...	...	...	Mr. H. Page	W. S. 10	...	...	...	Mr. Morris	M. W. 3	6 6	...	...
HOSPITAL PRACTICE: PHYSICIANS	Dr. A. Clark Dr. Ramskill Dr. Down Dr. Jackson Dr. Sutton Dr. Palfrey (*obstet.*) Dr. Fenwick	Daily, 2 M. Th. 1½ Daily, 1½	6 mths 6 6	12 mths 12 12	Perpet. 21 0	Dr. H. Jones Dr. Sieveking Dr. Broadbent Dr. A. Meadows (*obst.*)	M. Th. 1½ Tu. F. 1½ W. S. 1½ Tu. F. 9½	6 mths 9 9	12 mths 15 15	Perpet. 26 5	Dr. A. Clark Dr. H. Thompson Dr. Greenhow Dr. W. Cayley Dr. J. H. Davis (*obst.*)	Daily, 1 Daily, 1 Tu. F. 1½	3 mths 5 5	12 mths 8 8	Perp. for Med. & Surg. Prac. 26 5
ASSISTANT-PHYSICIANS	Dr S. Mackenzie Dr A. E. Sansom Dr. F. C. Turner Dr. T. Barlow Dr. G. Smith	...	...	...	...	Drs. Cheadle, Shepherd, Farquharson & Wiltshire (*obs.*)	Tu. F. 1 W. S. 1 M. Th. 1 Tu. F. 1½	...	...	...	Dr. R. King Dr. Coupland Dr. D. Powell	Th. 8½ S. 3½ M. W. 8½ Tu. 3½, F. 8½	...	...	...
SURGEONS	Mr Hutchinson Mr. Maunder Mr. Couper Mr. Rivington Mr. J. E. Adams Mr. W. Tay Mr. M'Carthy Mr Barrett, *dent*	Daily, 2 Daily, 1½	6 mths 8 8 13 mths 12 12	18 mths 18 18	3 years 36 5	Mr. H. Walton Mr. J. R. Lane Mr. Norton Mr. H. Walton (*ophthalmic*) Mr. Field (*aur.*) Mr. Hayward (*dental*)	M. Th. 1½ W. S. 1½ Tu. F. 1½ M. Th. 1½ Tu. F. 2 W. S. 9½	6 mths 11 11	...	Perpet. 38 17	Mr. Nunn Mr. Hulke Mr. G. Lawson Mr. Turner (*dental*) Mr. Critchett (*ophth.*)	Tu. F. 1 M. Th. 1 M. Th. 1 Daily, 9.30 A.M. W. S. 8.30	3 mths 5 5 ...	12 mths 8 8 ...	Perpet. 25 0 5 5
ASSISTANT-SURGEONS	Mr. Reeves	Daily, 1½	...	...	...	Mr. Edm. Owen, Mr. H. Page Mr. W. Pye Drs. Cheadle & Farquharson (*skin dis.*) Mr. Norton (*throat dis.*)	Tu. F. 1 W. S. 1 W. S. 10 Tu. Th. 1½ W. S. 12½	...	...	...	Mr. H. Morris Mr. Andr. Clark	M. F. 1 Th. S. 1			
CLINICAL MEDICINE	The Physicians and Asst.-Phys.	twice wk. 2	...	...	...	Dr. H. Jones Dr. Sieveking Dr. Broadbent	twice wk.	...	...	...	The Physicians	F. 3	...	...	...
CLINICAL SURGERY	The Surgeons and Asst.-Surg.	twice wk. 2 Operations, W at 2	...	...	...	Mr. H. Walton Mr. J. R. Lane Mr. Norton	twice wk. Operatns. W. 1½ P.M. ex. 2	...	...	...	The Surgeons Superintend. of P.-M. exam. Dr. Coupland	Tu. 3 Operatns. W. at 1 P.M. at 2 daily	...	...	...
SUMMER SESSION.															
MATERIA MEDICA	Dr. James	Tu. Th. F. 4	3 3	...	4 4	Dr. Farquharson	Tu. W. F. S. 12	5 5	...	...	Dr Thorowgood	M. W. F. 4	4 4	...	5 5
MIDWIFERY, &c.	Dr. Palfrey	M. Tu. W T. F. 9	4 4	...	6 6	Dr. A. Meadows	Tu. W. Th. F. 9	5 5	...	...	Dr. J. H. Davis	Tu. Th. S. 9	4 4	...	5 5
BOTANY	Mr. J. G. Baker	M. W. F. 11	3 3	...	4 4	Rev. J. M. Crombie	M. T. F. 10	4 4	...	...	Mr. Hensman	M. W. F. 10	4 4	...	5 5
MEDICAL JURISPRUDENCE	Mr. Rodgers Dr. Tidy	Daily, (ex. S.) 10	3 3	...	4 4	Dr. Randall	M. Tu. Th. 10	4 4	...	...	Dr. King	M. W. F. 9	4 4	...	5 5
PRACTICAL CHEMISTRY	Dr. Tidy	M. Th. S. 9	2 2	...	...	Dr. C. R. A. Wright	W. F. S. 9	4 4	...	...	Mr. W. Foster [*Psycho. Med.*] Mr. H. Case]	M. W. F. 3	3 3 3	...	...
COMPARATIVE ANATOMY	Dr. E. B. Aveling	Tu. S. 10	3 3	...	4 4	Mr. St. Geo. Mivart	W. Th. 10	2 12	...	...	Mr. Hensman	Tu. Th. 4	3 3	...	...
PATHOLOGY AND MORBID ANATOMY.	Dr Sutton & Dr S. Mackenzie	Th. 12½ S. 10	3 3	...	6 6	Dr. Cheadle (in Winter)	M. Th. 3	4 4	...	...					
OPERATIVE SURGERY	Mr. Maunder	...	6 6	...	...	Mr. Page	...	...	...	...	Mr. H. Morris				
PRACTICAL PHYSIOLOGY	Mr. M'Carthy	...	...	...	...		...	...	...	...	Mr. Lowne (in Summer)	M. W. Th. 9	4 4	...	...
HISTOLOGY AND THE MICROSCOPE.	Mr. M'Carthy (& in Winter)	Tu. Th. 11	3 3	...	4 4	Dr. Shepherd (in Winter)	Tu. W. F. 10	...	...	...					
OPHTHALMIC SURGERY	Mr. Couper	Tu. F. 8 A.M.	2 2	...	3 3	Mr. H. Walton	Th. 2½	2 12	...	...	Mr. Critchett	W. S. 8½ & W. 3 P.M.	...	...	...
AURAL SURGERY	Mr. A. G. Brown	S. 9 A.M.	2 2	...	3 3	Mr. Field	F. 3	2 12	...	...	Mr. Andr. Clark	Tu. 9	...	...	...
DENTAL SURGERY	Mr. Barrett	...	2 2	...	...	Mr. Hayward (in Winter)	...	2 12	...	...	Mr. Turner	Daily, 9.30 A.M.	...	...	5 5
DISEASES OF THE SKIN	Mr Hutchinson	...	...	...	...	Dr. Cheadle (in Summer)	Th. 3	2 12	...	...	Dr. R. Liveing	F. 4	...	...	...
DISEASES OF THE THROAT	Dr. M. Mackenzie	in Feb. & March	2 2	...	3 3	...	...	...	...	...	Mr. Andr. Clark	Tu. 9	...	...	...
PRACT. PHARM. & DISPENS.	Mr. Robertson	...	...	...	...	...	...	3 3	6 6	10 10	Mr. Lucas [*Pub. Health*: Dr. R. King]	...	5 5	8 8	...
Fee for all the Lectures required by the Colleges and Hall	...	...	£52 10		...	...	...	...	85 12	...	...	...	...	...	...
Fee for ditto, and Hospital Medical and Surgical Practice	...	...	£105 0		...	...	...	...	107 0	102 5	...	...		£90 0	
			or in one sum, £94 10				or in one sum	...	106 1	135 0					

TABULAR LIST OF THE CLASSES, LECTURERS, FEES, AND DAYS OF OPERATIONS AT THE LONDON HOSPITALS AND MEDICAL SCHOOLS, FOR THE SESSION 1878-79—(CONTINUED.)

LECTURES, ETC.	ST. THOMAS'S HOSPITAL AND SCHOOL.			UNIVERSITY COLLEGE AND HOSPITAL.				WESTMINSTER HOSPITAL.			
	LECTURERS.	Days and Hours.	FEES.	LECTURERS.	Days and Hours.	FEES. One Course.	FEES. Perpetual.	LECTURERS.	Days and Hours.	FEES. One Course.	FEES. Two Courses.
			—			£ s.	£ s.			£ s.	£ s.
WINTER SESSION.											
ANATOMY AND PHYSIOLOGY	Dr. J. Harley	T. W. F. 4		*Dr. Sanderson, Mr. E. A. Schafer	Daily, 10 (ex. S.)	8 8	10 10	Dr. Allchin	M. W. F. 4	6 6	8 8
PRACTICAL PHYSIOLOGY AND HISTOLOGY	Dr. T. C. Charles (in Summer)	Tu. W. F. 12½			Daily, 12	8 8	...	Mr. Murrell	W. F. 1 to 3	7 7	...
PHYS. DEMONSTRATIONS	Dr. T. C. Charles	M W F 12									
ANATOMY, DESCRIPTIVE AND SURGICAL	Mr. F. Mason	M. T. W.		...	Daily, 12	11 11	16 16	Mr. Gould	Tu W. Th F. S. 9	6 6	8 8
	Mr. Wagstaffe	Th. F. 9									
ANATOMICAL DEMONSTRATIONS	Mr. Rainey, Mr. Wagstaffe, Dr. R. W. Reid & Assistants	Daily, 10 to 4		Profs. Thane, Messrs. Godlee, Ottley, Boyd, Money, Smith, Maudsley, Firth	...	...	...	Mr. Miller	Daily, 10 to 1	4 4	6 6
CHEMISTRY	Dr. A. J. Bernays	T. Th. F. 10		Dr Williamson	Daily, (ex. S.) 11	7 7	9 9	Dr. Dupré	W. Th. F. 3	6 6	8 8
MEDICINE	Dr. Bristowe, Dr. Ord	M. Th. 4, W. 5		Dr. Ringer	Daily, (ex. M. & S.) 9	9 9	11 11	Dr. Fincham, Dr. Sturges	M. W. Th. 3	5 5	7 7
SURGERY	Mr. S. Jones, Mr. Mac Cormac	M. or Tu. Th. F. 5		Mr. Marshall	Tu. W. F. 4	7 7	8 8	Mr. Cowell, Mr. Davy	Tu. Th. 4 F. 3	5 5	7 7
GENERAL PATHOLOGY	Dr. Payne	Tu. 4		...	...	...	...	Dr. Allchin	...	...	...
NATURAL PHILOSOPHY	Dr. Stone (*with Physics*)	S. 12		Mr. Foster	Tu. Th.	6 6	...	Mr. Brooke (in Summer)	Tu. 10	1 1	...
HOSPITAL PRACTICE: PHYSICIANS	Dr. Bristowe, Dr Murchison, Dr. Stone, Dr. Ord, Dr. Gervis (*obst.*)	Daily, Winter & Summer, 2		Dr. W. H. Walshe, Dr. Reynolds, Sir W. Jenner, Drs. Fox, Ringer, Bastian, Roberts, Hewitt (sec.), T. Fox (*Skin*), Dr. Gowers, Dr. G. V. Poore, Dr. Williams (*obst.*)	Daily, 1 & 2 Each twice weekly Twice weekly	12 mths. 15 15	...	Dr. Fincham, Dr. Sturges, Dr. Allchin, Dr. Potter (*obst.*)	M. Th. 1½ W. S. 1½ Tu. F. 1½	12 mths 12 12	Perpet. 21 0 31 0
ASSISTANT-PHYSICIANS	Drs. J. Harley, Payne, Greenfield, and Cory (*obst.*)	Daily, 12½				...	Perpet. 36 15	Drs Hall, Dunkin Bennett, and Grigg [*Throat Dep.*: Dr. Hall	M. Th. 1 W. S. 1 Tu. F. 1 Tu. F. 1 Th. 3	...	
SURGEONS	Mr. S. Jones, Mr. Croft, Mr. Mac Cormac, Mr. F. Mason, Mr. Nettleship (*ophthal.*)	Daily, 2		Mr. R. Quain, Mr. Erichsen, Sir H. Thompson, Messrs Marshall, B. Hill, & Heath, Mr T. W. Jones, Mr Streatfeild (*ophth.*), Mr. Ibbetson (*dent.*)	Daily, 1 & 2 Thrice weekly	...	...	Mr. Cowell, Mr. Davy, Mr. Macnamara, Mr. Walker (*surg. dent.*) [*Ophth. Prac.*: Mr. Cowell, [*Skin dep.*: Mr. Bond]	M. Th. 1½ Tu. F. 1½ W. S. 1½ W. S. 9½ M. Th. 3 Th. 2	12 mths 12 12	Perpet. 21 0
ASSISTANT-SURGEONS	Mr. Wagstaffe, Mr Mac Kellar 12½ daily	Daily, 12½		Mr. M. Beck, Mr. Barker, Mr. R. J. Godlee	...	...	...	Mr. Cooke, Mr. Bond, Mr. Keene	M. Th. 1 Tu. F. 1 W. S. 1	...	...
CLINICAL MEDICINE	The Physicians (Special course, Dr. Murchison, Tu. 9)	After visits		The Physicians	Fortntly and Twice a week	...	...	Dr. Fincham, Dr. Sturges, Dr. Allchin	Weekly	...	...
CLINICAL SURGERY	The Surgeons in rotation	After visits		By the Surgeons	Once a week and Fortntly.	...	...	Mr. Cowell, Mr. Davy, Mr. Macnamara		...	...
CLINICAL MIDWIFERY, &c.	Dr. Gervis [*Vac.*: Dr. Cory, W. 11½.]	Tu. 4 Operations, W. S. 1½ *oph.* F. 2		Dr. G. Hewitt	Fortntly. Operations, W. at 2	...	...	Dr. Potter [*Morb. Anat.*: The Registrars [*Minor Surg. & Bandaging* Mr. Neale in Summer]	Altern. F. 3 P.-mort. exam. 2 Operations, Tu. at 2	...	...
SUMMER SESSION.											
MATERIA MEDICA, &c.	Dr. Stone	M. W. F. 9 A.M.		Dr. Roberts	Daily, (ex. M.) 10	6 6	7 7	Dr. Phillips	Tu. Th. S. 9	3 3	4 4
MIDWIFERY, &c.	Dr. Gervis	M. Tu. Th. F. 4		Dr. Hewitt	Daily, (ex. M. Th.) 9	6 6	7 7	Dr. Potter	Tu. W Th. F. 4	3 3	4 4
BOTANY	Mr. A. W. Bennett	Tu. W. S. 10		Mr. Oliver	Daily, (ex. S.) 8	3 13	5 5	Mr. Worsley-Benison	M. W. F. 9, Th. 10	3 3	4 4
MEDICAL JURISPRUDENCE	Dr. Payne, Dr. Cory	Tu. Th. S. 9		Dr. Mandsley	Tu. W. Th. F. 10	4 4	5 5	Mr. Bond, Dr. Dupré	M Th. F. 3	3 3	4 4
PRACTICAL CHEMISTRY	Dr. Bernays	M. Th. F. 10 to 12		Dr. Williamson	Daily, (ex. S.) 11	5 5	...	Dr. A. Dupré	M. W. F. 10-12	4 4	...
STATE MEDICINE	Dr A. Carpenter	W. 4		...	...	...	...	Dr. Sutherland	...	...	...
MENTAL DISEASES	Dr. Rayner (with Med. Jur.)	F. 12		Dr. Corfield	Tu. Th. 4	2 2	...	Mr. Bond	...	...	...
HYGIENE AND PUBLIC HEALTH	...	...		As in Winter	...	...	...	As in Winter	...	...	...
CLINICAL MEDICINE	The Physicians	After visits									
COMPARATIVE ANATOMY	Mr. C. Stewart (with Zoology)	M. Th. 12		Mr. Lankester (in Winter)	W. Th. F. 1	5 5	7 7	Dr. Carter Blake	W. S. 11	2 2	...
PATHOLOGY & MORBID ANATOMY	Dr. Greenfield, Dr. Reid*	Daily, 2		Dr. Bastian	M. Th. F. 9 (ex. F. 4)	6 6	7 7	Dr. Allchin (in Summer)	M. W. Th. 4	3 3	4 4
OPHTHALMIC SURGERY	Mr. Nettleship	M. 5		†Mr T. W. Jones	Tu. Th.	1 1	...	Mr. Cowell	M. 2½	...	...
DENTAL SURGERY	Mr. Elliott	Tu. F. 11		† Mr. Ibbetson	M. Th. 4	2 2	...	Mr. Walker	W. 9½	2 2	...
PRACTICAL SURGERY	Mr. Ranger, Mr. Croft, Mr. Mac Kellar (and in Wint.)	Tu. F. 5 S. 9		† Mr. B. Hill, † Mr. M. Beck, † Mr. Barker	M. Th. 4	6 6	...	Mr. Cowell (in Winter)	M. W. 3 Tu. Th. 4	...	...
OPERATIVE SURGERY	...	...		Mr. Beck	...	5 5	...	Mr. Davy			
PRACTICAL PHARMACY	Mr. Plowman [*Med. Sec.*:	...		Mr. Gerrard	...	5 5	...	Mr. Beer	...	3 3	5 5
FEE for Lectures and Hospital Practice	Dr. Gillespie]	...	£125	...	...	...	£ s. 131 5	In 1 sum, £73 10s. In 2 do., £98. In 5 do., £107 2s. No extras exc. for dissections.			

Perpetual to the whole, £126, in one payment, or in two payments of £70 on entrance and £60 in second year. Special entries may be made to any Course of Lectures, or to Hospital Practice, or by second and third years' students.

Fees for the entire of the Lectures and Hospital Practice in the first year, £90; second year, £50; £30 for the third.

* In Summer. † In Winter.

TABULAR LIST OF THE CLASSES, LECTURERS ETC., AND FEES, AT THE PROVINCIAL SCHOOLS OF MEDICINE, FOR THE SESSION 1878-79.

LECTURES, ETC.	BIRMINGHAM QUEEN'S COLLEGE.			BRISTOL MEDICAL SCHOOL.				CAMBRIDGE UNIVERSITY.			LEEDS SCHOOL OF MEDICINE.		
	LECTURERS.	Days and Hours.	FEES. One Course.	LECTURERS.	Days and Hours.	FEES. One Course.	FEES. Perpetual.	LECTURERS.	Days and Hours.	FEES. Sessional Course.	LECTURERS.	Days and Hours.	FEES.
WINTER SESSION.			£ s.			£ s.	£ s.			£ s.			£ s.
ANATOMY AND PHYSIOLOGY	Dr. R. Norris Mr. T. H. Bartleet Dr. Carter	M. Th. 4	5 5	Mr. Atchley Dr. Smith	M. W. F. 9½	5 5	8 8	Prof. Humphry	Tu. Th. S. 1		Messrs. Wright and Horsfall (*Physiology* only)	M. W. 3 Th. 5	6 6
ANATOMY, DESCRIPTIVE & SURGICAL	Mr. Wm. Thomas Dr. R. Jolly	M. Tu. Th. F. 11.30	5 5	Mr. Dobson Dr. Waldo	M. 10½ Tu. Th. S. 9½	5 5	8 8	Prof. Humphry Dr. Creighton	Daily, 9	5 5	Messrs. Land, Nunneley, and Robinson	Tu. Th. F. S. 10	6 6
ANATOMICAL DEMONSTRATIONS	Mr. Bennett May Mr. H. Eales	Daily	4 4	*Practical Surgery*: Mr. Coe Mr. Tibbits	...	...	...	Dr. Creighton	Daily		Mr. Robinson Mr. M'Gill Mr. Robson	...	...
					M. W. F. 8½	4 4	6 6						
PRACTICAL PHYSIOLOGY	...	...	...	...	...	...	...	Dr. M. Foster (and in Summer)	M. W. F. 12	2 2			
CHEMISTRY	Mr. A. C. Bruce	M. W. F. 1	4 4	Mr. Coomber Dr. Spencer	M. W. F. 8½	5 5	7 7	Prof. Liveing (and *Prac. Chemis.*)	M. Tu. Th. F. 12	3 3	Prof. Thorpe	M. Tu. W. Th. 4	4 4
MEDICINE	Dr. B. W. Foster	Tu. W. F. 3	5 5	Dr. Skerritt	M. W. F. 4	5 5	8 8	Prof. Paget	M. W. F. 9	3 3	Drs. Allbutt & Eddison	M. Tu. W. Th. 1	5 5
THERAPEUTICS	...	...	...	...	...	...	...	Prof. Latham	Tu. Th. 5				
SURGERY	Mr. Pemberton Mr. F. Jordan	Tu. W. F. 4	5 5	Mr. Coe Mr. Tibbits	Tu. Th. S. 8½ A.M.	5 5	8 8	...	...	...	Mr. Jessop Mr. Atkinson	M. Th. S. 9	5 5
HOSPITAL PRACTICE													
PHYSICIANS	GENERAL HOSPITAL AND QUEEN'S HOSPITAL.	...	31 10	BRISTOL ROY. INFIRMARY, AND BRISTOL GENERAL HOSPITAL. (*See Additional Information on Schools.*)	Daily, 11½ to 3	...	...	ADDENBROOKE'S HOSPITAL. Prof. Paget Prof. Latham Dr. Bradbury	Daily	6 mths. 8 8 12	LEEDS GENERAL INFIRMARY. Dr. Heaton Dr. Allbutt Dr. Eddison	...	...
SURGEONS	(*See Additional Information on Schools.*)	...	...		...	...	...	Mr. Lestourgeon Prof. Humphry Mr. Carver	Daily	mths. 10 10 perp. 15 15	Mr. Wheelhouse Mr. T. P. Teale Mr. Jessop Mr. Atkinson	...	...
SUMMER SESSION.													
MATERIA MEDICA, &c.	Dr. Sawyer	M. W. F. 4	3 3	Dr. Burder	M. Tu. Th. F. 9 A.M.	4 4	5 5	Prof. Latham (and *Pharmacy*)	Tu. Th. S.	2 2	Dr. Churton	M. W. Th. 9	4 4
MIDWIFERY, &c.	Mr. Clay and Dr. Bassett Mr. Berry and Dr. R. C. R. Jordan (*Dis. Wom. & Chil.*)	M. Tu. Th. F. 1	4 4	Dr. Swayne	Daily (ex. S.) 8 A.M.	4 4	6 6	... [*Myology*: Prof. Humphry] [*Osteology*: Prof. Humphry]	...	2 2	Mr. W. N. Price Dr. J. Braithwaite	M. Tu. Th. F. 4	4 4
OPERATIVE SURGERY	Mr. Pemberton Mr. F. Jordan	...	...	...	...	...	...	...	...	...	...	...	...
BOTANY	Dr. Hinds	M. W. F. 3	3 3	Mr. Leipner	Daily (ex. S.) 7 A.M.	3 3	5 5	Prof. Babington	M. W. F. 1	1 1	Prof. Miall	Tu. W. F. 3	4 4
MEDICAL JURISPRUDENCE	Mr. Wilders Mr. A. C. Bruce	M. Tu. F. 12	3 3	Mr. Keall	M. W. Th. 9 A.M.	3 3	5 5	...	...	...	Mr. Scattergood	M. Tu. Th. F. 5	4 4
MENTAL DISEASES	...	...	...	...	...	...	...	...	...	...	Dr. H. C. Major	F. 3, S. 4	...
PRACTICAL CHEMISTRY	Mr. A. C. Bruce	Tu. Th. 2	3 3	Mr. Coomber	M. W. F. 8 A.M.	3 3	5 5	Prof. Liveing Dr. Hicks	Daily	...	Prof. Thorpe	M. W. 10	3 3
COMPARATIVE ANATOMY	...	...	3 3	Mr. Atchley	M. W. Th. S. 10 A.M.	4 4	...	*Prof. Newton (in Winter)	M. Tu. F. 1	...	...	M. Th. 3	2 2
PATHOLOGY AND MORBID ANATOMY	Dr. E. Ricksrds (in Winter)	Th. 3	...	Dr. Spencer Dr. Skerritt	Tu. F. 9 A.M.	3 3	4 4	Dr. Bradbury	M. Tu. Th. F. 9	...	Mr. M'Gill	Tu. 3, F. 5	3 3
PRACTICAL HISTOLOGY	Dr. Norris	...	...	Mr. Atchley Dr. Smith	Tu. Th. S 8 A.M.	3 3	5 5	Dr. Creighton	S. 12½	...	Mr. Walker (*Physiology*)	T. Th. F. S. 10	6 6
DENTAL PHYSIC AND SURGERY	Mr. Hawkins	...	3 3	...	...	...	...	...	...	...	...	...	...
CLINICAL MEDICINE	The Physicians of the two Hospitals. [*Opthtal. Surg.*: Mr. Solomon]	...	...	...	Weekly	...	...	The Physicians	F. 11	...	Dr. Heaton Dr. Allbutt Dr. Eddison	M. 2, Th. 10, F. 4	...
CLINICAL SURGERY	The Surgeons of the two Hospitals. [*Hon. Curats. Museum*: Drs. Carter & Saundby]	...	3 3 ...	...	Ditto	...	...	The Surgeons [*Pract. Surgery*: The Surgeons]	Th. 11 Daily	...	Surgeons of the Infirmary	Tu. W. 8, F. 9	...
FEES for all the Lectures required by the College and Hall	...	...	£63 0	...	...	£63 0		...	...	...	...	...	£50 8
Ditto, and for Hospital Medical and Surgical Practice	...	...	£42 0	...	...	£103 0		...	...	...	...	...	£42 0

* With Zoology.

TABULAR LIST OF THE CLASSES, LECTURERS, ETC., AND FEES, AT THE PROVINCIAL SCHOOLS OF MEDICINE FOR THE SESSION 1878-79.

LECTURES, ETC.	DURHAM UNIVERSITY COLLEGE OF MEDICINE, NEWCASTLE-ON-TYNE.				LIVERPOOL ROYAL INFIRMARY SCHOOL OF MEDICINE.			OWENS COLLEGE (MANCHESTER ROY.) SCHOOL OF MEDICINE.			SHEFFIELD SCHOOL OF MEDICINE.			
			Fees.							Fees.			Fees.	
	Lecturers.	Days and Hours.	One Course.	—	Lecturers.	Days and Hours.	Fees.	Lecturers.	Days and Hours.	One Course.	Lecturers.	Days and Hours.	One Course.	—
WINTER SESSION.			£ s.				£ s.			£ s.			£ s.	
ANATOMY & PHYSIOLOGY	Dr. Drummond (*Physiology only*)	Thrice weekly, 3	4 4	...	Dr. Caton (*Physiology only*)	Tu. Th. S. 9½	4 4	...	...	...	{ Dr. O'Keefe / Dr. Dyson }	*Anat.* M. W. F. 6 / Tu. Th. 5 / *Phys.* M. W. 1	6 6	...
PRACTICAL PHYSIOLOGY	Dr. Drummond	...	...	...	(Vacant)	...	...	Prof. A. Gamgee‡ / Mr. Priestley (*With Histology*)	M. Tu. W. Th. F. 11½	5 5	Dr. Gwynne	...	3 3	...
ANATOMY, DESCRIPTIVE & SURGICAL	Mr. J. Russell / Mr. Mears	Four days weekly, 8½ A.M.	4 4	...	Mr. Banks	Daily, 11	4 4	Prof. Watson	Daily (ex. S.) 1	...	Mr. E. Skinner / Mr. Snell	...	...	...
ANATOMICAL DEMONSTRATIONS	Mr. Mears (*Dissections*)	Daily, from 10 to 4	...	...	Mr. Briggs	...	3 3	Prof. Watson / Mr. Young	Daily, 9½ to 4½	5 5	Mr. R. J. Pye Smith / Mr. W. D. James	Daily	2 2	...
CHEMISTRY	Prof. Marreco	M. Tu. W. Th. F. 11	4 4	...	Dr. Brown	M. Tu. Th. F. 3	5 5	Prof. Roscoe / Prof. Schorlemmer	Daily, 9½	3 3	Mr. Allen	M. W. F. 11½	4 4	...
MEDICINE	Prof. Philipson	M. W. F. 5	4 4	...	Dr. Waters	M. W. F. 9½	4 4	Prof. Morgan / Prof. Roberts	M. 4, Tu. Th. 3 / Tu. F. 9½	5 5	Drs. Bartolomé, Banham & Thomas	Tu. W.	4 4	...
SURGERY	Dr. Heath / Dr. Armson	M. W. F. 6	4 4	...	Mr. Parker	M. W. Th. 3	4 4	Prof. Lund	M. W. F. 3	5 5	Mr. W. F. Favell / Mr. A. Jackson	M. W. F. 8 A.M.	4 4	...
PRACTICAL SURGERY	Dr. Heath	...	...	...	...	M. Th. 4	4 4	Mr. Bradley	Tu. Th. 12	...	The House-Surg. at the Infirmary	...	...	...
PATHOLOGY	Dr. Gibb / Dr. Bramwell	...	...	...	Dr. Davidson	Tu. 4	3 3	Dr. Simpson / Dr. Dreschfeld	M. 3, Tu. Th. 4	4 4	Mr. Laver	...	...	...
PUBLIC HEALTH	Mr. Armstrong	...	...	...	...	...	...	...	...	...	...	...	...	...
HOSPITAL PRACTICE:	NEWCASTLE INFIRMARY.				LIVERPOOL ROYAL INF.			MANCHESTER ROYAL INFIRMARY.			SHEFFIELD GEN. INFIRMARY.			
PHYSICIANS	Dr. Philipson / Dr. Bramwell / Dr. Gibson / Dr. Drummond	Each twice weekly, 11	6 months 5 5	£7 7 / £17 17 Perpetual	Dr. Waters / Dr. Glynn / Dr. Davidson	12 to 2½	6 mon. 5 5 / 12 mon. 6 6	The Physicians	...	Composition fee, full period, £42	Dr. Bartolomé / Dr. Law / Dr. Banham	...	...	Perpt. £18 15 ; £21 / 12 mths' pros., £10 10 / 6 months, £6 6s.
SURGEONS	Dr. Heath / Dr. Armson / Dr. Armstrong / Dr. Hume	Each twice weekly, 10			Mr. Bickersteth / Mr. Harrison / Mr. Banks	12 to 2½	6 mon. 6 6 / 12 mon. 8 8	The Surgeons	...		Messrs. Barber, Favell, & A. Jackson	...	...	
ASSISTANT-SURGEONS	Dr. Page / Mr. T. A. Dodd	Once weekly, 11	...	...	Mr. Parker	...					PUB. HOSP. & DISP. Drs. Branson, Dyson, Thomas, & Keeling ; Messrs. Thorpe & Pye-Smith			
	[*Therapeutics:* Dr. Barron]	M. W. F.												
SUMMER SESSION.														
MATERIA MEDICA	Mr. McBean	Daily, 4½	4 4	...	Dr. Carter	Tu. Th. S. 8½ A.M.	4 4	Mr. A. Somers / Dr. Leech	M. W. 1 / Tu. Th. 12	4 4	Dr. Young	M. W. F. 8 A.M.	3 3	...
MIDWIFERY, &c.	Dr. Nesham / Dr. Gibson*	Daily, 8½ A.M.	4 4	...	Dr. Steele / Dr Gee (*child. dis.*)	M. W. F. 9 / W. F. 9	4 4	Dr. Thorburn	M. 12 / T. Th. F. 1	4 4	Dr. Hime	M. W. F. 8 P.M.	3 3	...
BOTANY	Dr. Murphy	...	...	...	Dr. Shearer	M. W. F. 3	3 3	Prof. Williamson	Daily (ex.S.) 2½	2 12 6	Mr. Birks	Tu. Th. 8	3 3	...
MEDICAL JURISPRUDENCE	Dr. Page	Tu. Th. F. 3	4 4	...	Dr. E. Whittle	M. W. F. 3	3 3	Dr. Ransome (*With Public Health*)	Tu. Th. F. 2	4 4	Mr. Harrison	Tu. Th. 5	3 3	...
PRACTICAL CHEMISTRY	Prof. Marreco	Daily, 10 to 5	4 4	...	Dr. Brown	M. Tu. Th. 10	3 3	Prof. Roscoe	M. W. 12½	5 5	Mr. Allen	...	3 3	...
COMPARATIVE ANATOMY	Dr. Brady	...	...	...	Dr. Dickinson	Twice wkly.	3 3	Prof. Williamson†	Daily (ex.S.) 2½	4 14 6	Mr. W. Jackson	F. 5	...	...
PATHOLOGY & MORBID ANATOMY	Dr. Gibb / Dr. Bramwell	W. 6	4 4	...	...	...	...	...	...	...	Mr. Laver	...	3 3	...
OPHTHALMIC SURGERY	[*Ment. Diseases:*	...	...	...	Mr. Walker†	W. 4	1 1	Dr. Little	W. F. 4	3 3	Mr. Snell	...	...	...
DENTAL SURGERY & MECHANICS	Mr. Wickham Tu. 3 P.M.]	...	...	...	Mr. Snape / Mr. Stewart	...	...	...	...	...	Dr. Merryweather	...	...	...
OPERATIVE SURGERY	Dr. Armstrong	...	4 4	...	Mr. Parker	Thrice wkly.	2 2	...	...	...	Mr. Favell	...	3 3	...
CLINICAL MEDICINE	Phys. and Surg. of Infirmary	...	...	...	Phys. and Surg. of Roy. Infr.	...	...	Physicians and Surgeons of the Royal Infirmary	...	...	Phys. & Surg. of Gen. Infirm. & Pub. Hosp. & Dispensary	Tu. 8 P.M.	...	...
CLINICAL SURGERY		...	...	...		...	...		...	...		Th. 8 P.M.	...	...
Fee for all Lectures required by the College and Hall	...	...	...	£52 10	...	...	£52 10	...	...	£63	...	...	...	£43 0
Ditto for Hospital Medical & Surgical Practice	...	...	...	£17 17	...	...	£33 12	...	...	£42	...	...	...	£36 15

* Diseases of Women and Children. † In Winter. ‡ Physiol. Labors'. Prof. Gamgee, daily, 9½ to 4½.

TABULAR LIST OF THE CLASSES, LECTURERS ETC., AND FEES, AT THE MEDICAL SCHOOLS OF SCOTLAND, FOR THE SESSION 1878-79.

LECTURES, ETC.	ABERDEEN UNIVERSITY.			EDINBURGH UNIVERSITY.			SCHOOL OF MEDICINE, EDINBURGH.					GLASGOW UNIVERSITY.			GLASGOW, ANDERSON'S COLL.		
			FEES.			FEES.			FEES.					FEES.			FEES.
	LECTURERS.	Hours	One Course.	LECTURERS.	Hours.	—	LECTURERS.	Hours.	First Course.	Second Course.	Perpetual.	PROFESSORS.	Hours	One Course.	LECTURERS.	Hours.	One Course.
WINTER SESSION.			£ s.			£ s.			£ s.	£ s.	£ s.			£ s.			£ s.
ANATOMY, DEMONSTRATIONS, &c.	Dr. Struthers	11, 9	5 5	Mr. Turner	1, 4	...	Dr. Handyside	9 to 4	7 9	6 8	...	Dr. J. Cleland	11, 2	6 6	Dr. A. M. Buchanan	12, 4	4 4
CHEMISTRY (PRACTICAL, &c.)	Mr. Brazier	3	3 3	Dr. Crum Brown (Adv. Class in Sum.)	10	7 7‡	Dr. S. Macadam	10	3 5	2 4	5 5	Mr. J. Ferguson	10	3 3	Mr. Dittmar	10	2 2
							Mr. Falconer King	10	3 5	2 4	5 5						
							Mr. Ivison Macadam	10	3 5	2 4	5 5						
PHYSIOLOGY (INST. OF MEDICINE) ...	Dr. Stirling (*Pract.* in Summer)	4	3 3	Dr. Rutherford	11	4 4	Dr. James§	11	3 5	2 4	5 5	Dr. McKendrick	12	3 3	Dr. McVail (*Practical* §)	12	2 2
GENERAL PATHOLOGY, &c.	Dr. Rodger	...	2 2	Dr. Sanders	9	4 4	...	2	3 5	2 4	5 5	...	3	3 3	(In Infirmary)	...	...
MEDICINE	Dr. Smith-Shand	3	3 3	Dr. Grainger-Stewart	3	4 4	Dr. Claud Muirhead	3	3 5	2 4	5 5	Dr. Gairdner	11	3 3	Dr. Charteris	5	2 2
							Dr. J. Wyllie	3	3 5	2 4	5 5						
SURGERY	Dr. Pirrie	10	3 3	Mr. Spence	10	4 4	Dr. P. H. Watson	10	3 5	2 4	5 5	Dr. Macleod	1	3 3	Dr. Dunlop	3	2 2
							Mr. Chiene	10	3 5	2 4	5 5						
							Dr. John Duncan	10	3 5	2 4	5 5						
							Dr. A. G. Miller	10	3 5	2 4	5 5						
MIDWIFERY, &c.	Dr. Stephenson	4	3 3	Dr. Simpson (Dis. Wom. & Chil.)	11	4 4	Dr. A. Macdonald	11	3 5	1 3	...	Dr. Leishman	4	3 3	(In Summer)	...	...
MEDICAL JURISPRUDENCE, &c. ...	Dr. Ogston	9	3 3	...	...	...	Dr. Littlejohn	2	3 5	2 4	5 5	Dr. Simpson§	11	3 3	(In Summer)	...	...
NATURAL HISTORY	Mr. Nicol	2	3 3	Sir C. W. Thomson	2	...	Dr. Andrew Wilson	3	3 5	2 4	5 5	Dr. Young	9	3 3	...	...	...
NATURAL PHILOSOPHY	Mr. Thomson	9	3 3	Mr. Tait	11	3 3	...	...	...	...	...	Sir W. Thomson	9, 11	4 4	...	...	...
VACCINATION	...	...	...	...	...	...	Dr. Husband§	...	1 1	...	...	GLASGOW ROY. INF. AND WESTERN INF.	...	...	In Infirmary	...	1 1
HOSPITAL PRACTICE:	ABERDEEN R. INF.			EDIN. ROYAL INF.			EDIN. ROYAL INF.								GLASGOW ROY. INF.		
PHYSICIANS	Drs. J. F. Smith-Shand, Beveridge, and A. Fraser	Daily, 12	One year, £3 10s. Perpetual, £6.	...	12	Perpetual ticket, £10	Dr. Haldane Dr. Balfour Dr. Muirhead Dr. Brakenridge	12	1 year, £5 5s.	6 months, £3 3s.	Perpetual, £10 at one payment.	The Physicians and Surgeons of the Infirmaries	9	1st year, £10 10s.; 2nd year & perpetual, £10 10s.	Drs Scott Orr, Perry, M'Laren, Charteris, & A. Wood Smith *Out-patients:* Drs. Mather and Lawrie	Daily, 9	1st year, £10 10s.; 2nd year, £10 10s.; afterwards free; 6 months, £3 3s.; 3 months, £2 2s.
SURGEONS	Drs. Pirrie, A. Ogston, Will, Mr. Williamson (*dental*)	Daily, 12		...	...		Dr. Watson Mr. Annandale	12				...	9		Drs. E. Watson, Morton, Dunlop, Macewen, and H. Cameron *Out-patients:* Drs. Lothian and Clarke	9	
ASSISTANT-SURGEONS	Dr. Garden	...	...	...	...	...	Mr. J. Bell	...	...	...	...	...	...				
CLINICAL MEDICINE	Drs. J. F. Smith-Shand, Beveridge, and A. Fraser	1	3 3	Drs. Maclagan, Sanders, Grainger-Stewart, & Fraser, and Dr. Simpson (Dis. of Women)§	Tu. F. 12 to 2	4 4 3 3	Dr. Balfour Dr. Muirhead Dr. Brakenridge (and in Summer)	Tu., F., 12	3 5	2 4	5 5	(Dr. McCall Anderson, Professor) (And in Summer)	9	3 3	The Physicians	9	...
CLINICAL SURGERY	Drs. Pirrie, A. Ogston, and Will	1	3 3	Dr. Annandale	M., Th., 12	4 4 3 3	Mr. J. Bell (and in Summer)	M., Th., 12	3 5	2 4	5 5	(Dr. G. Buchanan, Professor) (And in Summer)	9	3 3	The Surgeons	9	...
SUMMER SESSION.																	
PRAC. ANAT. & DEMONSTRATIONS	Dr. Struthers	9 to 4	2 2	Mr. Turner	...	5 5	Dr. Handyside	9 to 4	2 2	...	...	Dr. Cleland and Demonstrator	11, 1	...	Dr. Buchanan	4	1 1
BOTANY	Dr. Trail	8	3 3	Dr. Balfour	8	4 4	...	...	...	...	...	Dr. Dickson	12	3 3	Mr. Paterson	3	1 1
HISTOLOGY	Dr. Struthers	9	...	...	M. Tu. W. Th., 9	2 2	...	...	...	...	...	Dr. McKendrick	...	...	...	...	...
MEDICAL JURISPRUDENCE	(In Winter)	...	...	Dr. D. Maclagan	11	4 4	Dr. Littlejohn	11	3 5	2 4	5 5	Dr. Simpson	11	3 3	Dr. Alex. Lindsay	4	2 2
COMPARATIVE ANATOMY	Mr. Nicol	11	3 3	...	...	...	Dr. A. Wilson	...	...	...	...	Dr. Young†	...	...	...	...	...
PRACTICAL CHEMISTRY	Mr. Brazier	10	3 3	Dr. Crum Brown	...	3 3	Dr. S. Macadam	9 to 5	3 3	...	...	Mr. J. Ferguson	10	3 3	Mr. Dittmar	12	1 11 6
							Mr. Falconer King	9 to 5	3 3	...	...						
							Mr. Ivison Macadam	9 to 5	3 3	...	...						
DISEASES OF THE EYE	Dr. A. D. Davidson	...	1 1	...	...	...	Dr. Robertson	1	2 2	...	...	Dr. T. Reid	1	1 1	Dr. Wolfe	2	free
DISEASES OF CHILDREN	Dr. Stephenson	...	...	...	...	...	Dr. Peel Ritchie	3	2 2	...	...	...	...	...	(With Midwifery)	...	...
NATURAL HISTORY	...	...	...	Sir C. W. Thomson	2	4 4	Dr. And. Wilson	2	3 5	2 4	5 5	...	...	...	...	...	...
MEDICAL PSYCHOLOGY & INSANITY	...	...	...	Dr Grainger Stewart*	M. 3	3 3	Dr. J. Batty Tuke	3	2 2	...	...	Dr. Yellowlees	...	...	(With Jurisprud.)	...	...
GYNÆCOLOGY	Dr. Stephenson	11	2 2	Dr. Simpson	10	2 2	...	...	...	...	...	(In Winter)	...	...	(With Midwifery)	...	...
MIDWIFERY, &c.	(In Winter)	...	...	[*Pract. Patho.*: Dr. Sanders.]	11	3 3	Drs. Keiller, Underhill, Croom, & C. Bell	10	3 5	1 3	...	Dr. Leishman (In Winter)	...	...	Dr. J. G. Wilson [*Public Health*: Dr. Christie]	3	2 2
					M., Tu.,											1	...
OPERATIVE SURGERY	...	...	...	Mr. Spence	Th., F., 4	2 2	...‖	...	...	...	...	Dr. Macleod	1	2 2	Dr. Dunlop	11	2 2
MATERIA MEDICA, &c.	Dr. Harvey†	2	3 3	Dr. T. R. Fraser†	2	4 4	Dr. Moinet† & Craig	9 4	3 5	2 4	5 5	Dr. Cowan†	12	3 3	Dr. Morton†	4	2 2

* With Practical Instruction at an Asylum (Saturday), £3 3s. † In Winter. ‡ Chemistry, £4 4s.; Practical Chemistry £3 3s. § And in Summer. ‖ Messrs. J. Bell and Chiene, and Drs. Watson and Duncan, 4 P.M., £2 2s. each.

TABULAR LIST OF THE CLASSES, LECTURERS ETC., AND FEES, AT THE MEDICAL SCHOOLS OF IRELAND, FOR THE SESSION 1878-79.

LECTURES, ETC.	DUBLIN UNIVERSITY.		DUBLIN R. C. OF SURGEONS.		DR. STEEVENS' HOSP. AND MED. COLL., DUBLIN.		DUBLIN, CARMICHAEL SCHOOL.		DUBLIN, CATHOLIC UNIVERSITY.			CORK, QUEEN'S COLLEGE.				BELFAST, QUEEN'S COLLEGE.				GALWAY, QUEEN'S COLLEGE		
						Fees.								Fees.				Fees.				Fees.	
	Lecturers.	Fees.	Lecturers. Days & Hours.	Fees.	Lecturers and Hours.	First Course.	Lecturers. Days and Hours.	Fees.	Lecturers.	Days & Hours.	Fees.	Lecturers.	Days & Hours.	First Course.	Second Course.	Lecturers.	Days & Hours.	First Course.	Second Course.	Lecturers.	First Course.	Second Course.
						£ s.								£ s.	£ s.			£ s.	£ s.		£ s.	£ s.
ANATOMY AND PHYSIOLOGY	Dr. M'Dowel (*anat.*)		Dr. Mapother M. W. F. S. 3		Mr Hamilton 10	3 3	Dr. R. J. Harvey† daily (ex. S.) 12½		Dr. Hayden Dr. R. Cryan	Daily Daily (ex.S.) 12		Dr. J. J. Charles	Daily (ex. S.) 1	3 0	2 0	Dr. P. Redfern	Daily (ex. S.) 2	3 0	2 0	Dr. Pye daily (ex.S.) 2	3 0	2 0
ANATOMY, DESCRIPTIVE & SURGICAL	Dr. M'Dowel		Dr. Bevan Mr. Stoker Daily, 12		Mr. Bookey 1	3 3	Drs. Stoney & Gunn daily (ex. S.) 11½		Dr. R. Cryan Dr. Hayden	Daily (ex. S.) 1			Daily (ex.S.) 12	...	...	Dr. P. Redfern	...	...	...	...	...	...
PRACTICAL ANATOMY AND DISSECTIONS	Dr. Little (*prac. anat*)	Pract. Anat., £5 5s.	Drs. Stoney, Stoker, Ormsby, Wheeler, Peele, Franks, and Roe		Mr. Bookey Mr. Warren Mr. Hayes Mr. Pentland	5 5	Drs. Gunn, Wright, Blakeley, Auchinleck, Weddick, Doyle & Kirkpatrick		Dr Coppinger Mr Kilgarriff Dr. Carroll Dr Redmond Dr. K hoe	7 to 7 daily		Dr. Charles and Demonstrators	Daily, 12	3 0	...	Dr. Anderson	Daily (ex. S.) 12	3 0	3 0	Dr. Pye (and Demonstrator) Daily, 1	3 0	3 0
CHEMISTRY	Dr. Reynolds		Dr. Cameron Tu. Th. S. 2		Mr. McHugh 12	3 3	Dr. Tichborne Tu. Th. S. 2½		Dr Campbell	M. W. F. 2		Dr. Maxwell Simpson	M. W. F.	2 0	1 0	Dr. Andrews	Daily (ex. S.) 3	2 0	1 0	Dr. Rowney M. W. F. 12	2 0	...
PRACTICAL CHEMISTRY ...	Dr. Reynolds		Dr. Cameron		Mr. McHugh	3 3	Dr. Tichborne (*in Summer*)		‡Mr. Campbell	M. T. W F. 2		Dr. Maxwell Simpson	M. Tu. W. Th.	3 0	...	Dr. Andrews (*in Summer*)	Daily (ex.S.) 12	3 0	3 0	Dr. Rowney Tu. Th. S. 2	3 0	...
MATERIA MEDICA AND PHARMACY	Dr. Aquilla Smith		Mr. Macnamara		Mr Johnston (*in Summer*)	3 3	Mr. Dudley (*in Summer*)		‡Dr. Quinlan	M. Tu. W. Th.		Dr. O'Keefe	Tu. Th. S. 12	2 0	1 0	Dr. J. S. Reid	M. Tu. W. Th. 4	2 0	1 0	Dr. Colahan M. W. F. 4	2 0	1 0
BOTANY AND ZOOLOGY ...	Pr f. Wri t (*bot.*), Prof. Macalister (*zoology*)		Dr. Minchin		Dr. Fox (*in Summer*)	3 3	Mr. Blakely (*in Summer*)		‡Dr. Sigerson [*Ophthalm.*: Mr. Hayes]	Th. 2 F. S. 1		Mr. Robert Harkness	M. W. F. 3	2 0	1 0	§Dr. R. O. Cunningham	M. Tu. W. F. 4 (*Botany*) M. Tu. W. Th Fr. 11	2 0	1 0	Dr. A. G. Melville Tu. Th. S. 11	2 0	...
INSTITUTES OF MEDICINE AND PATHOLOGY	Dr. Purser		Dr. Little		...	...	Dr. Woodhouse M. W. F. 11 (*in Sum.*)		Dr. Nixon Dr. Lyons	Tu. Th. S. 3										*Exp. Physics*: Dr. A. H. Curtis Tu. Th. 12	2 0	...
NATURAL PHILOSOPHY ...	Prof. Leslie		...		Mr. McHugh (*in Summer*)	...	...		‡Rev. G. Molloy	Tu. Th. S. 2		Mr. J. England	Tu. Th. S. 11	2 0	1 0	Dr. J. Everett (*Winter and Summer*)	M. W. F. 11 & 1	2 0	...			
HOSPITAL PRACTICE	Sir P. Dun's or other Dublin Hospital.		City of Dublin Hospital. (Daily, 9)		Dr. Stevens Hospital. (Daily, 8½)	...	Richmond, Whitworth, and Hardwicker Hospitals.		...	...		North and South Infirmaries.	...	...	...	Belf. Royal Hospital. Union Hospital	...	...	...	Galway Infirmary & Town Hosp.	Sess 4 0	4 0
CLINICAL LECTURES	...		Three times weekly		Dr Grimshaw Dr. Bookey Mers. Colles, Hamilton, & M Donnell	...	...		...	...		...	...	...	...	...	...	...	...	Daily Drs. Browne, Pye, Kinkead, & Colahan T. F. 10	...	...
SURGERY	Dr. E. H. Bennett		Mr. Hughes Mr. Stokes Tu. Th. S. 1		Mr. Colles 11	3 3	Mr. Barton Mr. Corley Tu. Th. S. 11½		Mr. Tyrrell	M. W. F. 3		Dr. W. Tanner	Tu. Th. S. 1	2 0	1 0	Dr. A. Gordon	M. Tu. W. Th. 1	2 0	1 0	Dr. J. V. Browne M. W. F. 11	2 0	1 0
MIDWIFERY, &c.	Dr. Sinclair		Dr. Roe Tu. Th. S. 3		Dr. Isdell (thrice wkly.)	3 3	Dr. Jennings Dr. Macan M. W. F. 2½		Dr. Byrne	Tu. Th. S. 2		Dr. J. R. Harvey	M. W. F. 4	2 0	1 0	Dr. Dill (*in Summer*)	M. Tu. W. Th. 3	2 0	1 0	Dr. Kinkead M. W. F. 2	2 0	1 0
MEDICINE	Dr. Moore		Dr. Little M. W. F. 11		Dr Grimshaw 11	3 3	Drs. Gordon and Moore M. W. F. 11½		Dr. R. D. Lyons	Tu. Th. S. 3		Dr. D. C. O'Connor	M. W. 12 S. 12	2 0	1 0	Dr. Cuming	M. Tu. W. Th. 4	2 0	1 0	Dr. Colahan Tu. Th. S. 2	2 0	1 0
MEDICAL JURISPRUDENCE	Dr. Travers		Dr. Davy		Dr. Tweedy (*in Summer*)	...	‡Dr. Auchinleck (*in Summer*)		‡Dr. Macswiney	M. T. W Th. 12		Professors O'Keefe and O'Shaughnessy	M. W. S. 3	...	...	Dr. Hodges (*in Summer*)	M. Tu. W. Th. 2	2 0	1 0	Dr. Colahan Tu. Th. S. 4	2 0	2 0
COMPARATIVE ANATOMY...	Prof. Alex. Macalister		Dr. Mapother		Mr Hamilton	...	...		Dr. Hayden Dr. Cryan	...		...	...	2 0	...	...	...	...	...	...	...	...
PRACTICAL PHARMACY ...	...		[*Hygiene*: Dr. Cameron		Mr M'Carthy Mr. Swanzy	...	...		...	...		...	...	...	...	...	...	...	...	...	...	...
LOGIC	The College Tutors	Course, £3 3s. in all Classes, ex. Botany, Nat. Phil., comp. Anat., Pract. Pharm., & Logic.	[*Opthh. and Aural Surg.*: Dr. Swanzy]	Course £3 3s., in all Classes, ex. Pract. Anat. (£5 5s.), Prac. Chem. (£5 5s.), Oph. & Aur. Surg. & Hygiene, which are free.*	[*Ophthalmic Surg.*: Dr Fitzgerald, M.]	...	...	For each Course, £3 3s.; except Dissections, £5 5s.	‡Dr. D. B. Dunne	...	£3 3s. each Course, except Dissections and Pract. Chem., which are £5 5s. each.	Mr. G. S. Read	...	1 0	...	...	...	...	...	...	...	...

* Composition fee, £56 17s. 6d. † Prac. Phys. in Summer. ‡ In Summer. § Zoology in Winter; Botany in Summer.

METROPOLITAN HOSPITALS AND MEDICAL SCHOOLS.

ST. BARTHOLOMEW'S HOSPITAL AND COLLEGE.—The clinical practice of the hospital comprises a service of 710 beds, of which 676 are in the hospital at Smithfield, and 34 are for convalescent patients at Lauderdale House, Highgate.

Pupils' Appointments.—Four house-physicians and four house-surgeons are appointed annually, each of them holding office for one year, and provided with rooms by the hospital authorities. The midwifery assistant is appointed for a year, and is provided with rooms by the hospital authorities. The ophthalmic house-surgeon is appointed for six months, and is eligible for re-election for a second term of six months. The assistant chloroformist is appointed annually, and receives rooms and a salary of £25. No fee is paid for any of these appointments, and each receives a salary of £25.

The clinical clerks, the obstetric clerks, the clerks to the medical out-patients, the dressers to the surgical out-patients, and the dressers in the special departments are chosen from the diligent students. No fee is required for any of these appointments. Sixteen ward-dresserships are given annually to the students (of the second year) who pass the best examination in the subjects of study of the first and second year, or who may be otherwise specially recommended for such appointments. Other ward-dresserships may be obtained by payment of the usual fees.

A College is attached to the hospital, in which students can reside, subject to the College regulations. By applying to the warden, students will obtain information respecting rooms in College, or will be advised respecting residence out of the hospital.

Foundation and other prizes.—Open Scholarships in Science (founded 1873). These scholarships, of the value of £130 each, tenable for one year, will be competed for September 25th. Candidates must not be more than twenty-five years of age for one, and twenty-eight for the other, and must not have entered to the medical or surgical practice of any metropolitan medical school. The subjects of examination are Physics, Chemistry, Botany, and Zoology.—Preliminary Scientific Exhibition (founded 1873). The subjects of examination are identical with those of the Open Scholarship in Science. This Exhibition, of the value of £50, is tenable for one year. The examination is confined to students of the hospital of less than six months' standing, and will be held October 28th.—The Jeaffreson Exhibition, of the value of £50, and tenable for two years, is awarded after examination, beginning September 25th, in the subjects of General Education. It is now an Open Exhibition.—A Senior Scholarship, £50, in Anatomy, Physiology, and Chemistry.—Lawrence Scholarship, and Gold Medal, of the value of forty guineas (founded in 1873 by the family of the late Sir Wm. Lawrence).—Two Brackenbury Scholarships in Medicine and Surgery, £30 each.—Junior Scholarships in the subjects of study of the first year: 1, £50; 2, £30; 3, £20.

CHARING-CROSS HOSPITAL AND COLLEGE.—The fee for matriculation, which involves no examination, is £2 2*s.*, to be paid on entering. Matriculated students pay proportionately lower fees, and are admitted without additional fee to the special courses in Practical Surgery, the lectures on Psychological Medicine, to the Physiological Laboratory for practical instruction in Histology, and to the practice of the Royal Westminster Ophthalmic Hospital. They alone are entitled to compete for the scholarships, medals, and prizes.

Two Entrance Scholarships, of the value of £30 and £20 respectively, tenable for one year, will be awarded annually in October, after a competitive examination in the following subjects:—*Compulsory*, English, Latin, French or German, Mathematics; *Optional* (only one of which may be selected), Chemistry, Mathematics, German or French. Candidates must give notice of their intention to compete on or before Saturday, Sept. 21st, 1878.

Two scholarships are open for competition among the matriculated students: the Llewellyn Scholarship of £25, for students who have just completed their second year; and the Golding Scholarship of £15, for students who have just completed their first year. The Pereira Prize of £5 is open to all matriculated students; and is awarded annually for the best clinical reports.

The various resident appointments are open to all matriculated students without additional fee.

ST. GEORGE'S HOSPITAL.—Perpetual pupils, by payment of £130 in three instalments, or £125 in one sum, are entitled to admission to the medical and surgical practice; to compete for prizes and exhibitions; to hold the appointments of house-physician and house-surgeon, assistant house-physician, assistant house-surgeon, ophthalmic assistant, and to become clinical clerks for two periods of three months each, and dressers for similar periods. The house-physician and house-surgeon now receive their board and lodging free, and *no payment* is made for the appointment. Clinical clerks and dressers are also appointed without payment. Gentlemen are admitted to the hospital practice and lectures required by the Colleges of Physicians and Surgeons and the Society of Apothecaries on payment of £45 at the commencement of the first year of study, £45 at the commencement of the second year of study, £20 for the third, and £20 for the fourth year. These payments entitle the pupil to hold the offices of clinical clerk and dresser for three months each, and to become a candidate for the offices of medical and surgical registrar and demonstrator of anatomy and curator of the museum. These are all salaried offices. The obstetric assistant is resident, with a salary of £100. He must be a legally qualified practitioner.

Prizes.—The William Brown Exhibition of £100 per annum, tenable for two years; open to any pupil of St. George's who is under twenty-five years of age, and who shall have obtained a diploma or licence entitling him to be registered as a practitioner of medicine or surgery in England, within two years previous to the period fixed for the examination (July). The examination is to test the proficiency of the candidate in Medicine, Midwifery, and Surgery, including Ophthalmic Surgery. The William Brown Exhibition of £40 per annum, tenable for three years, for general fitness for the exercise of the medical profession, and for moral conduct. Sir Charles Clarke's Prize (interest of £200 Consols) for good conduct. The Brackenbury Prize in Medicine, value nearly £40; the Brackenbury Prize in Surgery, value nearly £40; open to all pupils of the hospital who on April 30th have not completed the fourth year of study, although they may at the next ensuing examination (in May) possess a diploma entitling them to practise medicine or surgery.

GUY'S HOSPITAL.—House-physicians and house-surgeons, obstetric residents, dressers, clinical and other clerks, are selected from the students according to merit, and without payment. The house-physicians, of whom there are three constantly on duty, one as junior and two as seniors, hold office for a period of six months each, the first two months in the former capacity, the other four in the latter. The duty of the junior house-physician is to attend in the medical out-patient room three times a week, in a room adjoining that occupied by the assistant-physician for the day, and prescribe for those patients who are not seen by the assistant-physician. The two senior house-physicians are chiefly occupied in the medical wards, which are apportioned between them, each visiting the wards under his charge twice daily. They attend to all emergencies that may arise in the absence of the physicians. The evening clinical observations of temperature, &c., are chiefly made by them. They have separate rooms in the clinical building, and are boarded at the charge of the hospital. The house-surgeons, of whom there are also three on duty, hold office for six months each. During the first two months the house-surgeon assists in the out-patient department. During the next two months he has the general superintendence of the surgical casualty department, and assists the senior when required; and subsequently as senior house-surgeon he lives in the hospital, being boarded free of expense, and in the absence of the surgeons and assistant-surgeons has the care of the patients in the surgical wards. The dressers are selected from those gentlemen who have completed their third winter session, and who have been most diligent in the junior appointments. They hold office for six months each. Three are attached to each surgeon. During their week of special duty they reside in the hospital, and board with the house-surgeons free of expense. The obstetric residents, two in number, reside and are boarded in the hospital. Each holds office for two months—one month as junior, one month as senior.

Scholarships, Prizes, &c.—Open Scholarship of the value of one hundred and twenty-five guineas in Arts, Latin, Greek, Mathematics, and modern languages. Open Scholarship of one hundred and twenty-five guineas in Science.

Subjects: Inorganic Chemistry, Zoology, Botany, Physics (these will be competed for on Wednesday, September 25th). At the end of the summer session: first prize, £50; second prize, £25; third prize (presented by one of the governors), £10 10s. Subjects: Anatomy, Physiology, Chemistry, Materia Medica, and Botany or Comparative Anatomy.—For Students in their second year: The Joseph Hoare Prizes—First prize, £25; second prize, £10. Subjects: Anatomy, Physiology. The Sands Cox Scholarship, of £15 per annum for three years. Subject: Physiology. The Michael Harris Prize, of £10, for Anatomy.—For students in their third year: First prize, £35; second prize, £20. Subjects: Medicine, Surgery, Midwifery, and Medical Jurisprudence.—For Senior Students: The Treasurer's Gold Medal in Medicine; the Treasurer's Gold Medal in Surgery; the Gurney Hoare Prize of £25, for Clinical Medicine and Surgery. The Physical Society awards the following prizes: Two of £5 each to the members who send in the best essays on selected subjects; prizes of £10 and £5 for the best papers read before the Society; and one of £5 to the member who has most distinguished himself in the debates of the sessions.

The Library is supplied with weekly, monthly, and quarterly journals of medicine, natural history, and philosophy. It is open to the students daily from 10 A.M. to 4 P.M.

KING'S COLLEGE.—The physicians' assistants, the physician-accoucheur's assistant, the clinical clerks, and the house-surgeon and dressers, are selected by examination from among those matriculated students of the College who are pupils of the hospital. The College and Hospital fees amount to £125 if paid in one sum on entrance, to £130 if paid in two instalments—viz., £70 on entrance and £60 at the beginning of the second winter session; or to £135 if paid in three instalments—viz., £60 on entrance, £50 at the beginning of the second winter session, and £25 at the beginning of the third. Students are recommended to add to the above the fee for attendance on the Medical Tutor's class for one year—namely, £3 3s. for the first year's subjects, or in the case of those preparing for the Preliminary Scientific Examination of the University of London, £5 5s. All resident students are required to attend the tutor during their first year. Rooms are provided within the walls of the College for the residence of a limited number of matriculated students. Registration fee at hospital. 10s. 6d.

Scholarships.—Warneford Scholarships: Two of £25 per annum for three years, and one of £25 for two years. Science: One of £50 for two years. College Scholarships: One of £40 per annum, for two years; one of £30, for one year; three of £20 for one year. The Daniell Scholarship of the annual value of £20. Sambrooke Registrarships, of the annual value of £50 each, and tenable for two years, are open to all matriculated students who have filled any one of the higher appointments of the hospital, or who have become Associates. The Leathes Prizes, value £7, and the Warneford Prizes, value £40, are given annually amongst the matriculated medical students. Two Medical Clinical Prizes, one of £3 for the winter session, and one of £2 for the summer session, and two Surgical Clinical Prizes, of £3 each, are given. The Todd Medical Clinical Prize consists of a bronze medal and books to the value of £4 4s. The Tanner Prize for Obstetric Medicine, value £10, is given annually in July. All students, occasional as well as matriculated, are admitted to contend for the class prizes.

LONDON HOSPITAL.—The government of this College has been reconstituted, every department supervised, and a principal appointed to ensure proper discipline and promote the general improvement. The department of Anatomy has received especial attention; and Dr. Wilson, late demonstrator at Cambridge University, superintends the teaching of Practical Anatomy. Lectures are given on all the subjects required by the examining boards. For instruction in Mental Diseases, students can attend, without further fee, the practice of Dr. John Millar, medical superintendent of Bethnal House Asylum, a few minutes' walk from the hospital. Clinical lectures, both medical and surgical, will be given every week, and practical instruction imparted in all the departments.

Prizes.—Nine Scholarships to be offered for competition in the winter and summer sessions:—Two Entrance Science Scholarships, awarded at the end of September, of the value of £60 and £40 respectively. Two Scholarships of £30 and £20, to the students who pass in September the best and second-best examinations in the subjects required at the Preliminary Examinations. A Scholarship, value £20, in Human Anatomy, for first-year's students, to be awarded in April, 1879. A Scholarship, value £25, in Anatomy, in Physiology, and Chemistry, for first or second-year's students, to be awarded at the end of the session. Three Hospital Scholarships, value £20 each, for Clinical Medicine and Clinical Surgery, and Clinical Obstetrics. The Duckworth Nelson Prize, value £10, for Practical Medicine and Surgery (biennial). Money prizes to the value of £60 given annually by the House Committee for zeal in dressing out-patients and knowledge of Minor Surgery.

Appointments.—Four house-surgeoncies, tenable for three or six months, and dresserships to in-patients, open to all. Dresserships to out-patients, with the privilege of competing for the prizes above-mentioned. Five house-physicianships, tenable for six months. Medical assistantships, held for three or six months. Two maternity assistants reside in the hospital. Resident accoucheurship, tenable for six months. (N.B. The holders of all the resident offices are provided with rooms and board free of expense.) Three clinical assistants in the medical out-patient department, at a salary of £80 each. Medical registrar, salary £100. Surgical registrar, salary £100. Prosectors of anatomy, ward clerks, and post-mortem clerks, according to merit.

General fee to lectures and hospital practice, 90 guineas, in one sum, or 100 guineas payable in three instalments of 40, 35, and 25 guineas at the commencement of the first, second, and third years respectively. Library fee, £1 1s. Special entries can be made to lectures or practice.

ST. MARY'S HOSPITAL.—There are four resident medical officers, three of whom are appointed for twelve months, and one, the obstetric officer, for six months, who board free of expense in the hospital. These appointments are awarded after competition, without additional fee. There is also a resident dresserships. A resident registrar is also appointed from amongst the students, with a salary of £100 a year and dispensary fees, who resides free of expense in the hospital. In addition to the above a demonstrator of anatomy is appointed annually with a salary of £100 a year; and the medical tutor in like manner, with a salary of £100 a year. Both these officers are eligible for re-election.

All general students are required to perform the duties of clinical clerks and dressers during the last two years of their curriculum. Students of the third year and of subsequent years are also appointed to assist the physicians and surgeons in charge of the out-patients. There is a Hospital Medical Society, which meets regularly during the winter session.

A Maternity Department is attached to the hospital. There are special departments for Diseases of the Eye, the Ear, the Skin, and the Throat, in which clinical demonstrations are constantly given by the physicians and surgeons in charge of them.

Scholarships, Prizes, &c.—Three Scholarships in Natural Science, each tenable for three years, and of the value of £60 the first year, £40 the second, and £20 the third year, and an Exhibition in Natural Science of the value of £20, tenable for one year. One of the scholarships and the exhibition are awarded immediately before the commencement of each winter session, by open competitive examination. An extra Scholarship in Natural Science, tenable for three years, of the value of £60 the first year, £25 the second, and £15 the third, will also be awarded by open competition in October, 1878. A Scholarship in Anatomy of the annual value of £20, for students who have completed their second winter session; and a Scholarship in Pathology of £20, for students who have completed their third winter session. Examinations will be held and prizes awarded in the various classes of each year at the termination of both the summer and winter sessions. Two prosectors are annually appointed, who each receive £5 and a certificate for their services.

Fee to the hospital practice and lectures, 107 guineas in instalments, or 101 guineas in one sum; perpetual, 125 guineas in instalments, or 119 guineas in one sum. Fee to the hospital practice and lectures required for the examination in Dental Surgery by the College of Surgeons, 62½ guineas. Special entries can be made to courses of lectures or periods of hospital practice. There is no fee for registration.

The Demonstrator of Anatomy receives into his house a limited number of students to board and lodge, whom in addition he assists in preparing for their examinations.

Practitioners in the neighbourhood also receive pupils to reside with them.

MIDDLESEX HOSPITAL.—There is a special Cancer Department, affording accommodation for 33 in-patients, whose period of residence in the hospital is unlimited. Special attention is bestowed on the clinical instruction of the students both in the wards and out-patient rooms. Classes, open to all the students, are held for practical instruction in the microscopic examination of healthy and diseased tissues, and also in the application of bandages and other surgical apparatus. Students are allowed to take out to read at their own homes the books from the large and carefully selected medical library of the school. Two Entrance Scholarships, of the annual value of £25 and £20, and tenable for two years, are offered for competition at the commencement of the winter session. Two Broderip Scholarships, of the annual value of £30 and £20, tenable for two years, and a clinical prize (value ten guineas) are awarded to those students who pass the best examination at the bedside and the post-mortem room. The Murray medal and Scholarship, in memory of the late Dr. John Murray, have been founded in connexion with the University of Aberdeen, and is awarded every third year to a student of this hospital. The Governors' Prize of twenty guineas is also awarded annually to the student who shall most distinguish himself during his three years' curriculum. Valuable class prizes are also given, and ten resident clinical appointments are annually awarded, after competitive examination, to students who have completed their education, and complied with the regulations of the school. The officers thus appointed reside and board in the hospital free of expense. The College tutor assists all general students, especially those who are preparing for examination, free of charge; and his instruction is arranged with a view to avoid the necessity of students obtaining any private tuition apart from that of the Medical School. The fee for attendance on the hospital practice and lectures required by the Colleges of Physicians and Surgeons and by the Society of Apothecaries is £90, which may be paid by instalments.

The clinical clerk and dresser of the physician and surgeon of the week dine at the board-room table, free of charge, with the view of their being constantly in the hospital to assist the resident physician's assistant and house-surgeon in case of need, and to have the opportunity of seeing the fresh cases. A limited number of general students are also allowed to dine at the board-room table. The paid offices of medical registrar, surgical registrar, resident medical officer, and demonstrator of anatomy are open to qualified men as they become vacant. All clinical clerkships and dresserships are awarded without fee.

ST. THOMAS'S HOSPITAL.—*Prizes and Appointments for the year* 1878-9.—For First-year's Students: Two entrance Scholarships in Natural Science of the value of £60 and £40, will be awarded during the first week in October, after an examination in Physics, Chemistry, Botany, and Zoology; the William Tite Scholarship, founded by the late Sir William Tite, F.R.S., the proceeds of £1000 Consols (£30 per annum), is awarded each year; also prizes of £20 and £10; summer, £15, £10, and £5. For Second-year's Students: the College Scholarship of 40 guineas, and the Musgrove Scholarship, founded by Sir John Musgrove, Bart., the President of the Hospital, and endowed with £1400 Consols, producing 40 guineas per annum, are awarded biennially to the student who shall take the highest place in the first-class list in the examinations at the end of the second winter session; they are tenable for two years, provided the holder obtains a place in the first class in the subsequent examinations: making the winter prizes £42, £20, and £10; summer, £15, £10, and £5; with the dresserships and the clinical clerkships. For Third-year's Students: Second tenure of Scholarship £42, and prizes of £20, £15, and £10, and the Prosector's Prize of £5. Clinical clerks and dressers are selected according to merit. The Grainger Testimonial Prize of £20, awarded biennially to third or fourth year's students, for the best Physiological Essay, to be illustrated by preparations and dissections; the Cheselden Medal, for Surgery and Surgical Anatomy; and the Mead Medal, founded by Mr. and Mrs. Newman Smith, for Practical Medicine, are awarded annually to fourth-year's students. The Solly Medal, with a prize from 10 to 20 guineas, will be awarded biennially to a student of the third, fourth, fifth, or sixth year, for the best report of Surgical Cases. The Treasurer's Gold Medal, for general proficiency and good conduct, is awarded annually to a fourth-year's student. The house-physicians, house-surgeons, assistant house-physicians and surgeons, and resident accoucheur are chosen, from gentlemen who have obtained their professional diplomas, according to merit, and, with the dressers, are provided with rooms and commons. Two hospital registrars, at £100 per annum each, will be selected from gentlemen distinguished for merit.

Patients are examined for admission daily at 11 A.M. The medical and surgical casualty out-patients are seen by the resident assistant-physician, the resident assistant-surgeon, the house-physicians, house-surgeons, and dressers, at from 12 to 1 o'clock daily. The Dissecting-room is open to the students from 9 A.M. to 6 P.M.

The fee to hospital practice and lectures may be paid in several ways:—1st. £125, paid on entrance. 2nd. £130, in two payments,—£70 on entrance, and £60 at the beginning of next year. 3rd. Payment by three instalments—viz., of £60 at the beginning of the first year, £50 at the beginning of the second year, and £30 at the beginning of the third year, entitles a student after payment of the third instalment to an unlimited attendance. The fee for attendance on the *general* subjects required of students in Dental Surgery, is for the two years £55, or by instalments £50 for the first year and £10 for the second year. Regularly qualified medical practitioners are admitted to the hospital practice and to the lectures and library on payment of a fee of £12 10s. for unlimited attendance.

UNIVERSITY COLLEGE, LONDON.—The fees for lectures and hospital practice required by the College of Physicians and Surgeons and the Society of Apothecaries during the student's entire course amount to 125 guineas if paid in one sum, or 130 guineas if paid by instalments—viz., first year 60 guineas, second year 50 guineas, third year 20 guineas.

Exhibitions, Prizes, &c.—Three Entrance Exhibitions, of the respective values of £30, £20, and £10 per annum, tenable for two years, are annually awarded, upon examination by printed papers, to gentlemen who are about to commence their first winter attendance in a medical school. The subjects of the examinations are—Classics, Elementary Mathematics, Natural Philosophy, and either French or German at the option of the candidate. The next examination will take place at the College on September 26th and 27th. Notice of intention to compete, with a statement of the modern language in which the candidate wishes to be examined, must be left with the Secretary not later than Sept. 24th, at the office of the College. The Atkinson Morley Surgical Scholarship of £45, tenable for three years, is annually awarded to the student who, upon examination, is found to possess the greatest proficiency in the Theory and Practice of Surgery. The Sharpey Physiological Scholarship of about £70 per annum, tenable for three years, for proficiency in Biological Science. Filliter Exhibition: a prize of £30 is awarded annually, in July, to the most proficient student in the class of Pathological Anatomy. An Atchison Scholarship, value about £55 per annum, tenable for two years. Besides the above, gold and silver medals and other prizes are awarded in each class. The appointments of demonstrators of anatomy, of resident medical officer to the hospital, and of surgical registrar—all of which have emoluments attached to them—are almost invariably conferred upon students of the College. Physicians' assistants, house-surgeons, midwifery assistants, physicians' clerks, surgeons' dressers, ward clerks, and ophthalmic surgeon's assistants are selected from the pupils, without additional fees.

WESTMINSTER HOSPITAL.—The entry fee to lectures and hospital practice required by the Colleges of Physicians and Surgeons and the Society of Apothecaries may be paid in one sum of £92 10s., or in two instalments of £49, at the commencement of the first two winter sessions, or in instalments at the commencement of the first five sessions, amounting to £107 2s. There are no extras, except parts for dissection.

The fees for Dental students are £45 in one sum, or £32 and £18 at the commencement of each year.

In addition to the practice of the hospital, which contains 200 beds, the pupils of this school are admitted to the practice of the Westminster Ophthalmic Hospital, and to that of the National Hospital for Epilepsy and Paralysis.

Tutorial classes in the subjects of examination of the licensing bodies are held four days a week. Each student

will be required to attend at least three hours' tutorial instruction every week. No additional charge will be made.

Special classes for the Preliminary Scientific M.B. Examination of London University are held from October to July.

A house-physician, house-surgeon, and resident obstetric assistant are appointed annually, by examination, from amongst the senior students, without the payment of any fee, and these officers are provided with board and lodging free of expense. The medical and surgical registrars receive each a salary of £40. The appointments of assistant house-surgeon, physician's assistant, surgeon's assistant, ophthalmic assistant, in-patients' clerk, in-patients' dressers, and out-patients' dressers, are open to students of the hospital.

Besides the prize appointments just enumerated, there is a Scholarship in Anatomy and Physiology of twenty guineas, for second-year's men; an Exhibition in Anatomy and Elementary Physiology, of ten guineas, for first-year's men. There are also the Chadwick Prize for general proficiency, of the value of twenty guineas; the Frederic Bird Prize, value £15; and two Clinical Prizes of £5 each for Medicine and Surgery and practical work in the wards. Certificates of honour may be obtained in any of the classes. There are also three Entrance Scholarships, value £100, £50, and £20 each. Examination in Latin, Mathematics, and French or German, and Chemistry and Natural Philosophy, on September 26th and 27th. Notice of intention to compete, and a certificate of moral character, to be sent to the Dean, not later than Sept. 24th.

A prospectus, and any particulars, to be had on application to the Dean.

GREAT NORTHERN HOSPITAL, Caledonian-road.—Consulting Surgeon: Frederick Le Gros Clark, Esq., F.R.S. Physicians: Dr. Leared, Dr. Cholmeley, Dr. Cruckneli, Dr. Cook, Dr. Robert Bridges. Obstetric Physician: Dr. Gustavus C. P. Murray. Ophthalmic Surgeon: Mr. J. Tweedy. Surgeons: Mr. Gay, Mr. W. Adams, Mr. W. Spencer Watson, Mr. W. H. Cripps, Mr. J. Macready. Aural Surgeon: Mr. A. E. Cumberbatch. Dental Surgeon: Mr. Charles James Fox. Chloroformist: Mr. George Eastes. House-Surgeon: Mr. T. H. Gillam.

HOSPITAL FOR CONSUMPTION AND DISEASES OF THE CHEST, Brompton.—Consulting Physicians: Dr. C. J. B. Williams, F.R.S., Dr. W. H. Walshe, Dr. R. Quain, F.R.S. Consulting Surgeons: Professor John Marshall, F.R.S. Physicians: Dr. J. E. Pollock, Dr. E. S. Thompson, Dr. C. T. Williams, Dr. R. D. Powell, Dr. J. Tatham. Assistant-Physicians: Dr. R. Thompson, Dr. B. Yeo, Dr. F. Roberts, Dr. T. H. Green, Dr. J. M. Bruce. Dental Surgeon: Mr. W. P. Bartlett. Resident Medical Officer: Dr. W. T. Law. Secretary: Mr. H. Dobbin. Three clinical assistants reside in the hospital for a period of six months. Pupils are admitted to the practice of the hospital: terms, £3 3s. for three months; perpetual £5 5s. The medical practice of the hospital is recognised by the University of London, the Apothecaries' Company, and the Army and Navy and India Medical Boards. The hospital contains 192 beds, and there is an extensive out-patient department.

ROYAL HOSPITAL FOR DISEASES OF THE CHEST, City-Road, E.C.—Established 1814. 26 beds. Consulting Physicians: Drs. Herbert Davies and Horace Dobell. Physicians: Drs. G. Goddard Rogers, P. J. Hensley, Gilbart Smith, and D. W. Finlay. Assistant-Physicians: Drs. R. Wharry and W. Murrell. Consulting Surgeon: Mr. G. W. Callender. Surgeon: Mr. W. J. Walsham. House-Physician: Dr. Bland. In-patients, 165; out-patients cases, 5642. This hospital has just been enlarged by the addition of a very complete new out-patients' department, and wards for 14 additional in-patients. It is proposed, as soon as possible, to build another wing, whereby the number of beds will be increased to about 70. The office of House-Physician, which is tenable for one year, and for which a sum of £80 is voted in lieu of board, is filled up annually in October.

NATIONAL HOSPITAL FOR THE PARALYSED AND EPILEPTIC, 23, 24, and 25, Queen-square, Bloomsbury.—The physicians attend every Monday, Tuesday, Wednesday, and Friday, at 2.30 P.M. In and out-patients' practice and electrical-room treatment at that hour. Physicians: Drs. Ramskill, Radcliffe, Hughlings Jackson, and Buzzard. Physician for out-patients: Dr. H. Charlton Bastian. Assistant Physicians: Dr. Maclure and Dr. Gowers. Surgeon: W. Adams, F.R.C.S. Resident Medical Officer and Registrar: A. E. Broster, M.R.C.S. Medical practitioners and students will be admitted on showing their cards.

ROYAL ORTHOPÆDIC HOSPITAL, 315, Oxford-street.—Surgeons: Mr. B. E. Brodhurst, Mr. H. A. Reeves, Mr. Chas. Read, Mr. Wm. E. Balkwill. House Surgeon: Mr. H. F. Baker. Secretary: Mr. Maskell. Operations on Mondays at 2 P.M. The hospital is open to all legally qualified practitioners. Pupils are admitted to witness the practice of the hospital on the following terms: Six months, £3 3s.; twelve months, £5 5s.; perpetual, £10 10s. The annual course of lectures will be duly announced.

ROYAL WESTMINSTER OPHTHALMIC HOSPITAL, King William-street, Charing-cross.—The hospital contains 50 beds; and the patients, who number 10,000 annually, are seen and operations performed, daily at 1 o'clock. The following are the days of attendance of the surgeons: Mr. Power, Monday and Friday; Mr. Rouse, Monday and Friday; Mr. Macnamara, Tuesday and Thursday; Mr. Cowell, Wednesday and Saturday. The practice of the hospital is open to students. Fees for six months, £3 3s.; perpetual, £5 5s. Students of the hospital are eligible for the post of house-surgeon. Special Demonstrations and Lectures will be given during the session. Secretary, Mr. Geo. C. Farrant.

LONDON SCHOOL OF DENTAL SURGERY, Leicester-square.—Lectures are delivered in winter on Mechanical Dentistry, by Mr. James S. Turner, M.R.C.S., L.D.S., on Wednesdays, at 7 P.M.; on Metallurgy in its application to Dental Purposes, by Mr. G. H. Makins, M.R.C.S., F.C.S., on Tuesdays and Fridays, at 12 o'clock. In summer, Mr. S. H. Cartwright, M.R.C.S., L.D.S., lectures on Dental Surgery and Pathology; and Mr. C. S. Tomes, M.R.C.S., L.D.S., on Dental Anatomy and Physiology (Human and Comparative). General fee for special lectures required for the curriculum, £15 15s.—DENTAL HOSPITAL OF LONDON (in connexion with the above).—Surgeons: Messrs. Fox, Medwin, Gregson, Coleman, Moon, and Hill. Assistant-Surgeons: Messrs. Canton, Bartlett, Hepburn, Gibbings, Woodhouse, and Hutchinson. Dental House-Surgeon: Mr. Lawrence Read. Assistant Dental House-Surgeon: Mr. H. W. Dews. Secretary: Captain H. B. Scoones. Fee for two years' hospital practice required by the curriculum, £15 15s.

SEAMEN'S HOSPITAL (late *Dreadnought*), Greenwich, S.E.—This institution is established for the relief of seamen of all nations. Casualties are received at all hours. Apartments are provided in the house of the surgeon for students and others who may be desirous of studying diseases incidental to tropical climates before entering the services or going abroad. Unusually good opportunities also exist for the practice of operative surgery. Honorary Consulting Physicians: Drs. George Budd and Stephen H. Ward. Visiting Physicians: Dr. Charles Henry Ralfe and Harry Leach, M.R.C.P. Lond. Honorary Consulting Surgeon: Mr. Geo. Busk, F.R.S. Visiting Surgeon: Mr. N. Davies-Colley. Surgeon: Mr. W. Johnson Smith. House-Physician: Dr. de Fonmartin. House-Surgeon: Mr. Hugh P. Dunn. Secretary: Mr. Henry C. Burdett.

THE HOSPITAL FOR SICK CHILDREN, Great Ormond-street, Queen-square, W.C., and Cromwell House, Highgate.—Physicians: Drs. Dickinson, Gee, and W. B. Cheadle. Assistant-Physicians: Drs. R. J. Lee, O. Sturges, Thomas Barlow, and Robert Bridges. Surgeons: Mr. T. Smith, Mr. F. Howard Marsh, Mr. Edmund Owen, and Mr. J. H. Morgan. Surgeon-Dentist: Mr. A. Cartwright. Fee for three months' attendance, £3 3s.; perpetual, £5 5s. Secretary: S. Whitford. There are now 104 beds in the hospital, Great Ormond-street, and 52 beds at the country branch; total, 156. In-patients last year, 927; out-patients, 9872. The practice at the hospital has recently been thrown open gratuitously to the pupils of the different hospitals and medical schools of London on conditions which may be ascertained of the Secretary.

VICTORIA HOSPITAL FOR CHILDREN, Gough House, Queen's-road, Chelsea; and Churchfields, Margate.—The hospital contains 65 beds and 12 at the home at Margate; and has a large out-patient department (over 400 weekly). Physicians: Dr. Julian Evans and Dr. Ridge Jones. Assistant-Physicians: Dr. Grigg, Dr. Pearson Irvine, Dr. Allchin, and Dr. Albert Venn. Surgeon: Mr. Cowell. Assistant-Surgeons: Mr. Churchill and Mr. Fisher. Dental Surgeon: Mr. Risdon. House-Surgeon: Mr. Bisdee. Registrar: Mr. Bowdich Hale. Secretary: Captain W. C.

Blount, R.N. Out-patients are seen daily as under:—Medical cases: Daily, except Saturday and Sunday, at 9 A.M.; and Mondays and Thursdays at noon. Surgical cases: Daily, except Saturday and Monday, at 10 A.M. Dental cases: Saturdays, at 9.30 A.M.

ROYAL INFIRMARY FOR CHILDREN AND WOMEN, Waterloo-bridge-road.—Instituted 1816. Consulting Physicians: Dr. Wilks, Dr. John Williams. Consulting Surgeon: Mr. J. Cooper Forster. Physicians: Drs. G. V. Poore, W. Park, G. Roper, and W. A. Sturge. Surgeon: Mr. Edwin Canton. Surgeon Dentist: Mr. Drury. Resident Medical Officer: Mr. E. Overman Day. Secretary: Mr. W. Champion. Advanced students in medicine, and such practitioners as may desire it, are permitted to attend the practice of this hospital gratis. If a certificate signifying such attendance be required, the sum of five guineas must be paid to the physicians and surgeons in ordinary conjointly.

BRITISH LYING-IN HOSPITAL, Endell-street, St. Giles's, W.C.—Consulting Physician: Dr. Priestley. Consulting Surgeon: Mr. T. Spencer Wells. Physicians: Dr. Heywood Smith, Dr. Arthur Edis, and Dr. S. Fancourt Barnes. Matron: Miss Freeman. Secretary: Mr. Vincent Yardley. This institution receives women only, as midwifery pupils. The pupils reside in the hospital, and attend the patients in-doors and within half a mile radius, under the direction of the matron and physicians. A course of lectures is also given by the physicians. The fee for the course of three months is ten guineas. Pupils that prove themselves competent receive a certificate signed by the physicians, enabling them to practise midwifery.

BELGRAVE HOSPITAL FOR CHILDREN, 1, Cumberland-street, S.W.—Established 1866. 20 beds. Consulting Physician: Sir Wm. Gull. Consulting Surgeon: Mr. John Wood. Physicians: Dr. Farquharson and Dr. Hope. Surgeons: Mr. Stirling and Mr. Bennett. Surgeon-Dentist: Mr. ——. In-patients, 102; out-patients, 1071. Pupils are admitted to the practice of the hospital upon producing a certificate of being duly registered as medical students.

EVELINA HOSPITAL FOR SICK CHILDREN, Southwark-bridge-road, S.E.—Consulting Physician: Dr. W. S. Playfair. Consulting Surgeon: Mr. Prescott Hewett. Physicians: Drs. E. Buchanan Baxter, F. Taylor, T. Crawford Hayes, James Goodhart. Surgeons: Messrs. W. Morrant Baker, H. G. Howse, and R. Clement Lucas. House Surgeon: W. E. Paley.

SCHOOL OF PHARMACY OF THE PHARMACEUTICAL SOCIETY OF GREAT BRITAIN.—Chemistry and Pharmacy: Professor Redwood, Ph.D., F.I.C., F.C.S. Lectures are delivered on Monday, Tuesday, and Wednesday mornings at 9 o'clock. The course consists of sixy lectures. Two courses are given annually, the first commencing on October 7th; and the second course on March 3rd, 1879. The subjects of these lectures are—(1) Physics in relation to Chemistry and Pharmach. (2) Inorganic Chemistry. (3) Organic Chemistry. Botany and Materia Medica: Professor Bentley, M.R.C.S. Eng., F.L.S. These lectures are delivered on Thursday, Friday, and Saturday mornings, at 9 o'clock. The first course commences on October 4th; the second course on March 6th, 1879. Practical Chemistry, directed by Dr. John Attfield, F.I.C., F.C.S., assisted by a Demonstrator, Dr. Alfred Senier, F.I.C., F.C.S., and an Assistant-Demonstrator, Mr. Henry Allen, commences on Tuesday, October 1st, at 10 A.M. The laboratories are open from ten o'clock in the morning until five in the afternoon daily, except on Saturdays when they are closed at two o'clock. Fees for ten months, according to hours of attendance, twelve to twenty-five guineas; for shorter terms in proportion. Each student is expected to attend every lecture of the course for which he has entered, or to state the cause of absence to the professor or to an assistant.

ENGLISH PROVINCIAL HOSPITALS AND MEDICAL SCHOOLS.

QUEEN'S COLLEGE, BIRMINGHAM. — The Sands Cox Prize, value £20, is annually awarded after examination in Medicine, Surgery, and Midwifery. The examination in 1879 will be held in the third week in March. The Warden's Prize, value three guineas, is awarded annually to the most proficient student of the first year. Two Ingleby Scholarships annually after examination in Obstetric Medicine and Surgery, and Diseases of Women and Children; open to students who have completed the first two years of their curriculum in this College. Class Prizes: Medals and certificates of honour are awarded annually in each class after examination. Hospital practice may be attended at either the General Hospital or the Queen's Hospital for a common fee. Composition fee, 60 guineas.

THE GENERAL AND QUEEN'S HOSPITALS, BIRMINGHAM. —*The General Hospital*:—Consulting Surgeon: D. W. Crompton, F.R.C.S. Consulting Physician: Dr. Bell Fletcher. Physicians: Dr. Russell, Dr. Wade, Dr. Foster, Dr. Rickards. Obstetric Physician: Dr. Malins. Assistant-Physicians: Dr. Saundby, Dr. Gibson. Surgeons: Mr. Baker, Mr. Pemberton, Mr. Bartleet, Mr. Goodall, Mr. Jolly. Assistant-Surgeons: Mr. Archer, Mr. Chavasse. *The Queen's Hospital*:—Consulting Surgeon-Accoucheur: Samuel Berry, F.R.C.S. Physicians: Dr. Heslop, Dr. Sawyer, Dr. Carter, Dr. Hunt. Surgeons: Mr. West, Mr. Gamgee, Mr. Furneaux Jordan, Mr. Wilders. Obstetric Surgeon: Mr. John Clay. Ophthalmic Surgeon: Mr. Priestley Smith. Dental Surgeon: Mr. Charles Sims.

Students of the Birmingham School of Medicine are required to attend the practice of both hospitals for alternate periods of six months. Any further information may be obtained from Dr. Rickards, or Dr. Carter, Hon. Secs. of the Birmingham Clinical Board.

BRISTOL ROYAL INFIRMARY.—264 beds. Physicians: Drs. Spencer, Shingleton Smith, Waldo, and Shaw. Surgeons: Messrs. Leonard, Tibbits, Steele, Board, and Dawson. Surgeon for the out-patients: Mr. Prichard. Medical Superintendent: Dr. Greig Smith. House-Physician: Dr. Scott. House-Surgeon: Dr. Lilley. Secretary: W. Trenerry. In-patients last year, 2219; out-patients last year, 19,031. Fees: Surgeon's Pupil, first year, £12 12s.; two years, £21; three years, £26 5s. Dresser (extra fee): One year, £12 12s.; two years, £21; three years, £26 5s. Physician's Pupil: Six months, £8; one year, £15; eighteen months, £20; perpetual, £25.

Pupils are entitled to attend the practice not only of their own physician or surgeon, but also that of all the physicians or surgeons. Surgical pupils, on acquiring the requisite experience, are permitted to dress all the out-patients, and also to reside in the house in weekly rotation, where they are in charge of all the casualties under the supervision of the house-surgeon. The Medical Superintendent is allowed to take three resident pupils. A Pathological Clerk, who performs all the post-mortem examinations, is appointed for three months from among the senior students. Practical Pharmacy at the laboratory and dispensary. Clinical Lectures are given by the physicians and surgeons during the winter and summer sessions.

The library contains about 3000 volumes. There is a museum, containing over 3000 specimens of normal and morbid anatomy.

BRISTOL GENERAL HOSPITAL.—Honorary and Consulting Physician: Dr. H. E. Fripp. Honorary and Consulting Surgeons: Mr. R. W. Coe, Mr. W. M. Clarke, and Dr. Henry Marshall. Honorary and Consulting Physician-Accoucheur: Dr. J. G. Swayne. Physicians: Drs. G. F. Burder, E. M. Skerritt, and J. B. Siddall; and A. E. A. Lawrence (accouch.) Surgeons: Messrs. F. P. Lansdown, G. F. Atchley, N. C. Dobson, and W. P. Keall.

Fees.—Medical or Surgical Practice, for six months, £6; one year, £10; perpetual, £20. Extra fee for clinical clerk or dresser, five guineas for six months; for obstetric clerk, three guineas for three months. Resident pupils, £100 for the first year, £60 for each subsequent year; or for five years, with apprenticeship to the hospital, £260.

BRISTOL SCHOOL OF MEDICINE.—Students of Anatomy or Physiology who do not pay the general perpetual fee of sixty guineas are required to pay a medical tutor's fee of two guineas per annum.

ADDENBROOKE'S HOSPITAL, CAMBRIDGE.—Clinical Lectures in Medicine and Surgery in connexion with the Cambridge Medical School are delivered at this hospital twice a week during the academical year; and practical instruction in Medicine and Surgery, in the wards, is given by the physicians and surgeons daily, during the vacations as well as term time.

LEEDS SCHOOL OF MEDICINE.—Attendance at the lectures of this school will confer the same qualifications for examination as are obtained in the medical schools of London. The lectures on Chemistry, by Professor Thorpe, are delivered at the Yorkshire College. The Hardwick Clinical Prize, value £10, is conferred annually upon the most deserving student who exhibits a satisfactory proficiency in Clinical Medicine. The Surgeons' Clinical Prize, value £10, given by the surgeons of the hospital, is conferred annually on the most deserving student who exhibits proficiency in Clinical Surgery. In addition to the Silver Medal awarded in Medical Jurisprudence, there is a prize of £10, for which a special examination is annually held. Practical Surgery and Practical Physiology are taught in accordance with the regulations of the Royal College of Surgeons. In the Infirmary there are six clinical clerkships and eight dresserships. Four resident assistants are chosen from the senior students; board and residence free. Besides the Infirmary there is a large Dispensary and a Fever Hospital; both are in the town, and open to students attending the school.

LIVERPOOL ROYAL INFIRMARY SCHOOL OF MEDICINE.—Three house-surgeons and two house-physicians are elected every six months from pupils of the school who have obtained a qualification. Six dressers and six clinical clerks are elected quarterly; and post-mortem clerks for six weeks. Pupils of the Infirmary are admitted to learn Pharmacy in the dispensing department for six months. Two Scholarships of £21, held two years.

The hospital contains 300 beds, including wards, with 40 beds, for the treatment of diseases of women. The Lock Hospital adjoining contains 60 beds.

Fees.—For six months' medical practice, five guineas; twelve months, six guineas; surgical, six guineas for six months, eight guineas for twelve months (this includes admission to the practice of the Lock Hospital adjoining the infirmary); perpetual medical and surgical practice, thirty-two guineas.

LIVERPOOL NORTHERN HOSPITAL.—Physicians: Dr. Dickinson and Dr. Caton. Surgeons: Mr. Manifold, Mr. Chauncey Puzey, and Dr. Campbell. Dental Surgeon: Mr. James B. Lloyd. House-Physician: Mr. R. H. Jones. House-Surgeon: Mr. James Allan. Junior House-Surgeon: Dr. Wm. McGeagh. 144 beds. There is a special ward for the treatment of children. Clinical lectures are delivered by the physicians and surgeons during the summer and winter sessions. Clinical Clerkships and Dresserships are open to all the students without additional fee.

Fees for Hospital Practice and Clinical Lectures.—Perpetual, twenty-five guineas; one year, ten guineas; six months, seven guineas; three months, four guineas.

Attendance on the practice of this hospital qualifies for all the examining boards.

LIVERPOOL ROYAL SOUTHERN HOSPITAL.—Physicians: Dr. Cameron and Dr. Carter. Surgeons: Mr. Hamilton, Dr. Little, and Mr. Ransford. Senior House-Surgeon: Mr. Wearing. Junior House-Surgeons: Mr. Helme and Mr. Davies. Consulting Surgeons: Dr. Petrie, Mr. Higginson, and Dr. Nottingham. 200 beds. Clinical lectures given by the physicians and surgeons during the winter and summer sessions.

Fees for Hospital Practice and Clinical Lectures.—Perpetual, twenty-five guineas; one year, ten guineas; six months, seven guineas; three months, four guineas.

Separate rooms for several resident students, who are received at the rate of 60 guineas per annum.

The practice of the hospital is recognised by all the examining bodies.

OWENS COLLEGE (MANCHESTER ROYAL) SCHOOL OF MEDICINE.—This medical school is located in a large, new building, which forms a part of Owens College. It is provided with a very large dissecting-room, physiological laboratory, private laboratories, and work-rooms, besides lecture-rooms, a museum, and a library. The departments of Anatomy, Physiology, and Chemistry are taught by professors who devote the whole of their time to the duties of their respective chairs. The more strictly practical departments of medical study are taught partly in the Medical School and partly in the Royal Infirmary, to which are attached a fever hospital, a lunatic asylum, and a convalescent home. Medical and surgical clinical classes are conducted in the infirmary by the professors of medicine and surgery, and separate instruction is afforded in the elements of medical and surgical physical diagnosis, in obstetric medicine, ophthalmic surgery, and pathological anatomy, by the different members of the staff of the Medical School and Infirmary. The following scholarships and prizes are open to students of the Medical School:—1. A Scholarship and Prizes are awarded at the end of each academic year to students of the first, second, and third year. 2. A Platt Physiological Scholarship of £50 a year for two years is offered annually to the student who, having studied for one entire session in the physiological laboratory of Owens College, has prosecuted the best original investigation in Physiology and has passed a satisfactory examination in Physiology. 3. Two Platt Exhibitions of the value of £20 each, to be competed for by first and second year's students in the class of Physiology. 4. A Dumville Surgical Prize of £20 is offered annually for proficiency in Clinical Surgery. 5. Medical and Surgical Clinical Prizes, each of the value of six guineas, are open to competition each year for the best reports (with comments) of cases which have occurred in the wards of the Infirmary.

COLLEGE OF MEDICINE, NEWCASTLE-UPON-TYNE.—*Winter Session* (commencing on the 1st of October, 1878)—Physiology: Dr. Drummond. Anatomy: Mr. Russell and Mr. Mears. Surgery: Drs. Heath and Arnison. Chemistry: Professor Marreco, M.A. Pathological Demonstrations: Dr. Bramwell. Practical Pharmacy: Mr. B. S. Proctor. Public Health: Mr. H. E. Armstrong. *Summer Session*—Midwifery: Dr. Nesham. Diseases of Women and Children: Dr. Gibson. Botany: Dr. Murphy. Medical Jurisprudence: Dr. Page. Materia Medica: Mr. McBean. Therapeutics: Dr. Barron. Pathological Anatomy: Dr. Gibb and Dr. Bramwell. Operative Surgery: Dr. Armstrong. Practical Physiology: Dr. Drummond. Medical Tutor and Demonstrator: Dr. Mears.

Fees for Lectures.—Composition fee for all the lectures, qualifying for the Licence in Medicine and the Mastership in Surgery of the University of Durham, the Licence and Membership of the Royal College of Physicians, the Membership of the College of Surgeons, and the Licence of the Apothecaries' Society, and payable on entering to the first winter session, £52 10*s*. Perpetual ticket for Pharmacy curriculum, £12 12*s*. Separate courses of lectures, each £4 4*s*. Single course of Chemistry, £5 5*s*. The composition fee entitles the holder to attend the lectures on Botany, Chemistry, Materia Medica and Pharmacy, and to use the Museum of Materia Medica in the library of the College.

Hospital Practice.—This can be attended at the Newcastle Infirmary, which contains 230 beds. Midwifery, Diseases of the Eye, and Insanity can be specially studied. The Laboratories, Libraries, and Museums are open daily.

Fees for Hospital Practice.—Twelve months, £7 7*s*.; six months, £5 5*s*.; three months, £4 4*s*.; perpetual fee, £17 17*s*.; or, if paid by instalments, first year, £7 7*s*.; second year, £6 6*s*.; third year, £5 5*s*. These fees are payable in advance.

NORFOLK AND NORWICH HOSPITAL.—120 beds. One year's attendance recognised by examining boards. Fees: For the physicians' practice, five guineas for six months; ten guineas, perpetual. For the surgeons' practice, including dresserships, £10 for three months; £15 for six months; £20 for one year; £30 for two years; and £40 perpetual. Pupils, resident and non-resident. Physicians: Dr. Copeman, Dr. Eade, and Dr. Bateman. Hon. Consulting Surgeon: Mr. Nichols. Surgeons: Mr. Firth, Mr. Cadge, and Mr. Crosse. Assistant-Surgeons; Mr. Williams and Dr. Beverley. House-Surgeon: Mr. Charles Firth.

SHEFFIELD SCHOOL OF MEDICINE.—The Infirmary contains 180 beds; a Museum of Pathology, Library, and Post-mortem Theatre, with microscopes and all the appliances for clinical research. Perpetual fee for attendance on all the lectures required by the Royal College of Surgeons and the Apothecaries' Hall, £42. Prospectuses and all further information may be obtained upon application to the Hon. Secretary, Mr. A. Jackson.

SHEFFIELD PUBLIC HOSPITAL AND DISPENSARY.—Physicians: Dr. H. J. Branson, Dr. Dyson, and Dr. Thomas. Surgeons: Dr. Keeling, Mr. Thorpe, and Mr. Pye-Smith.

House-Surgeon: Mr. H. A. Shera. Number of beds, 104. In- and out-patients yearly about 30,000. A physician and surgeon attend at the hospital daily. G. K. Thorpe, Hon. Secretary to the Staff.

SHEFFIELD HOSPITAL FOR WOMEN, Figtree-lane.—Medical officers: Dr. Jackson, Dr. Keeling, Dr. Hime, and Mr. F. Woolhouse. The hospital is devoted chiefly to diseases peculiar to women. There is also an obstetric department attached to the hospital for the admission of a small number of cases. A staff of midwives connected with the hospital attend lying-in women at their own homes, and in case of need are assisted by the members of the medical staff of the hospital. Out-patients are attended daily at the hospital. Students can attend the practice of the hospital, and be supplied with cases of midwifery.

NORTH STAFFORDSHIRE INFIRMARY, Hartshill, Stoke-upon-Trent.—The new North Staffordshire Infirmary was opened in 1869, and is built on the pavilion plan. It has accommodation for nearly 220 patients, including detached fever wards and children's hospital. In-patients last year 1329; out-patients, 5289. The hospital is duly recognised by the Court of Examiners of the Royal College of Surgeons of England, and students have great facilities for acquiring a practical knowledge of their profession.

WOLVERHAMPTON AND STAFFORDSHIRE GENERAL HOSPITAL.—210 beds. Attendance recognised by examining boards. Pupils non-resident. The hospital contains large male and female accident wards, general medical and surgical wards, a children's ward, a ward for diseases of women, and a fever wing. The out-patient department, commodious and convenient, is semi-detached from the main building.

YORK COUNTY HOSPITAL.—Established 1740; rebuilt 1851. 110 beds. In-patients, 754; out-patients, 4160. Physicians: Dr. G. Shann and W. Matterson. Surgeons: Messrs. W. D. Husband, G. Hornby, and R. Hewetson. House-Surgeon: Mr. Samuel Wreford. Secretary: Mr. R. Holtby.

SCOTTISH HOSPITALS AND MEDICAL SCHOOLS.

ROYAL INFIRMARY, EDINBURGH.—Beds are set apart for clinical instruction by the professors of the University of Edinburgh. Courses of Clinical Medicine and Surgery are also given by the ordinary physicians and surgeons. Special instruction is given in the medical department on Diseases of Women, Physical Diagnosis, &c., and in the surgical department on Diseases of the Eye. Separate wards are devoted to fever, venereal diseases, diseases of women, diseases of the eye, also to cases of incidental delirium or insanity. Post-mortem examinations are conducted in the Anatomical Theatre by the Pathologist, who also gives practical instruction in Pathological Anatomy and Histology. Hospital tickets: Perpetual in one payment, £10; annual, £5 5*s.*; half-yearly, £3 3*s.*; quarterly, £1 11*s.* 6*d.* Separate payments for two years entitle the students to a perpetual ticket. No fees are payable for any medical or surgical appointment. The subordinate appointments are open to all students and junior practitioners holding the hospital ticket during the period over which the appointment extends. These appointments are as follows:—1. Resident physicians and surgeons are appointed, and live in the house free of charge. Candidates must be registered as legally qualified practitioners. The appointment is for six months, but may be renewed at the end of that period by special recommendation. 2. Non-resident clinical clerks are appointed by the physicians and surgeons for such periods and under such conditions as they deem expedient. 3. Dresserships: Each surgeon appoints from four to nine dressers, the appointment being for six months. 4. Assistants in the Pathological department are appointed by the pathologist.

SCHOOL OF MEDICINE, EDINBURGH.—The lectures qualify for the universities and the Royal Colleges of Physicians and Surgeons of the United Kingdom.

Lectures on Diseases of the Eye, by Dr. Allan Jamieson (£2 2*s.*); Medical Anatomy, &c., by Dr. Muirhead (£2 2*s.*); Pathological Histology, by Dr. John Willie (£3 5*s.*); Syphilology, by Dr. Cadell (£3 5*s.*); Diseases of the Ear, Dr. Kirk Duncanson; Diseases of Children, Dr. R. Peel Ritchie (£2 2*s.*)

In accordance with the statutes of the University of Edinburgh, any four of the medical classes required for graduation, or two complete *anni medici*, may be attended in this school, each of which *anni medici* may be constituted by attendance on two of the six months' courses, or on one of these and two three months' courses. The regulations require that the fee for any class taken for graduation in Edinburgh shall be the same as that for the corresponding class in the University.

The whole of the education required for graduation at the University of London may be taken in this school.

The minimum cost of the education in this School of Medicine for the double qualification of physician and surgeon from the Royal Colleges of Physicians and Surgeons, including the fees for the joint examination, is £90 4*s.*, which is payable by yearly instalments during the period of study; whilst the minimum cost for the single qualification of either physician or surgeon, including fees for examination, is £80.

ANDERSON'S COLLEGE, GLASGOW. — The following Scholarships will be competed for at the commencement of winter session 1878-79:—(1) A Scholarship, value £20, for students of the College entering upon their third winter of medical study; (2) a Scholarship, value £10, for students of the College entering upon their second winter of medical study. The subjects of examination for the £20 Scholarship will be Anatomy, Physiology, and Surgery. In Anatomy the examination will be limited to the following subjects—viz.: The Joints; the Minute Anatomy of the Thoracic and Abdominal Viscera; Practical Examination on Recent Dissections. In Physiology the examination will be limited to the cerebro-spinal nervous system. And in Surgery the examination will be limited to hernia, dislocations, fractures, diseases of the bones, aneurism, and diseases of the genito-urinary organs. The examination will be partly *viva voce* and partly written. The subjects of examination for the £10 Scholarship will be Anatomy and Chemistry. In Anatomy the examination will be limited to the bones, joints, and muscles. In Chemistry the written examination will be on some subject taken from the chemistry of the sugars and alcohols (text-book, Armstrong's "Organic Chemistry"). The *viva voce* examination will embrace the chemistry of the non-metallic elements (text-book, Wilson's or Williamson's "Chemistry"). There will also be a practical examination, embracing the analysis of a simple salt. The examinations for the scholarships will take place in the last week of November, 1878. In addition to these Scholarships a prize of £5 will be awarded in the Junior Anatomy Class at the close of the winter session, and one of similar value in the Chemistry Class for students of the first year.

A Dispensary is connected with Anderson's College, the leading feature of which is that students have the privilege of visiting and treating patients at their own homes. In addition, advice is given daily at the Dispensary on all medical and surgical diseases, and once a week special advice and clinical instruction are given in diseases of women and children.

GLASGOW ROYAL INFIRMARY SCHOOL OF MEDICINE.—The winter session will open on October 29th. Courses of lectures are given on all the subjects required by the licensing bodies for qualification, and lectures are also given on practical physiology, operative surgery, aural surgery, dental surgery, and diseases of the eye. During the summer, lectures on insanity are given by Dr. A. Robertson, and the city parochial asylum under his charge is free to students of this school. Students have unusual facilities for the study of anatomy, the supply of subjects being practically unlimited.

Winter session: Junior Anatomy, Anatomical Demonstrations, and Practical Anatomy, Mr. H. E. Clark; Physiology, Mr. W. J. Fleming; Surgery, Dr. D. C. Cameron; Materia Medica, Dr. John Dougall; Chemistry, John Clark, Ph.D.; Practice of Medicine, Dr. A. Wood Smith.—Summer session: Pathology, Dr. D. Foulis; Medical Jurisprudence, Dr. William Macewen; Practical Physiology, Mr. W. J. Fleming; Chemistry, John Clark, Ph.D.; Midwifery, Dr. James Stirton; Operative Surgery, Dr. H. C. Cameron; Aural Surgery, Dr. J. P. Cassells; Anatomy, Mr. H. E. Clark; Dental Surgery, Dr. J. C. Woodburn;